

# MANAGED LANES SYSTEM PLAN

## Traffic and Revenue Analysis Update

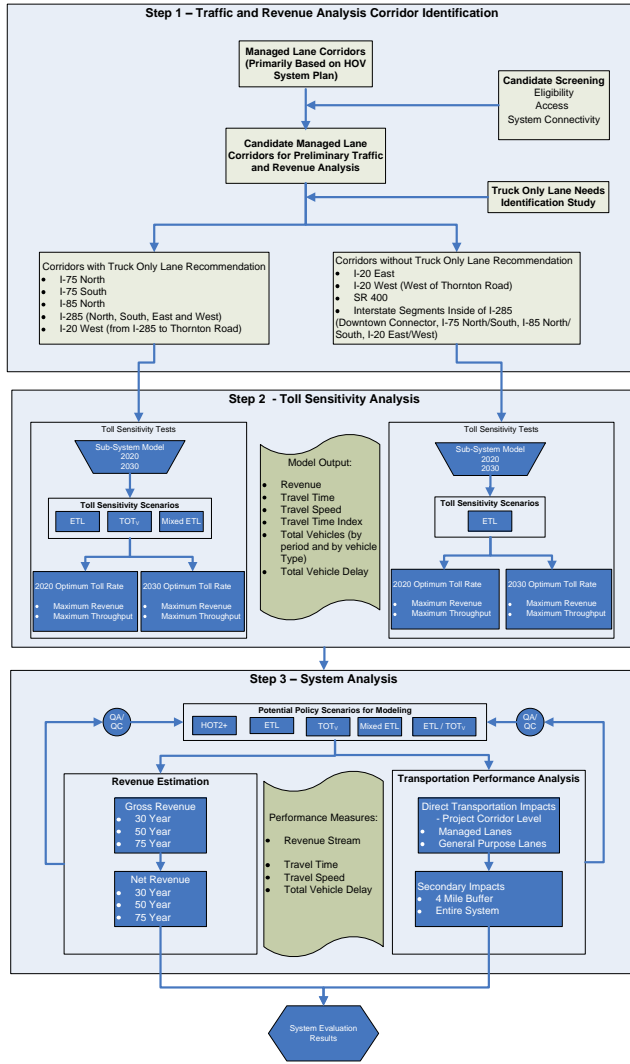


# Traffic and Revenue Analysis Overview

- Preliminary Traffic and Revenue
  - Not intended for use in support of project financing
- Models From Atlanta Regional Commission
  - Use ARC's latest socio-economic forecasts
  - Reflects the most up-to-date project lists from both the TIP and RTP
- Produce Traffic and Revenue Projections
  - Two Revenue Data Points (2020 and 2030)
  - Georgia PPI uses 50 Year Forecast
  - Cumulative Revenue Forecast: 30-year, 50-year and 75-year



# Traffic and Revenue Analysis Process Overview



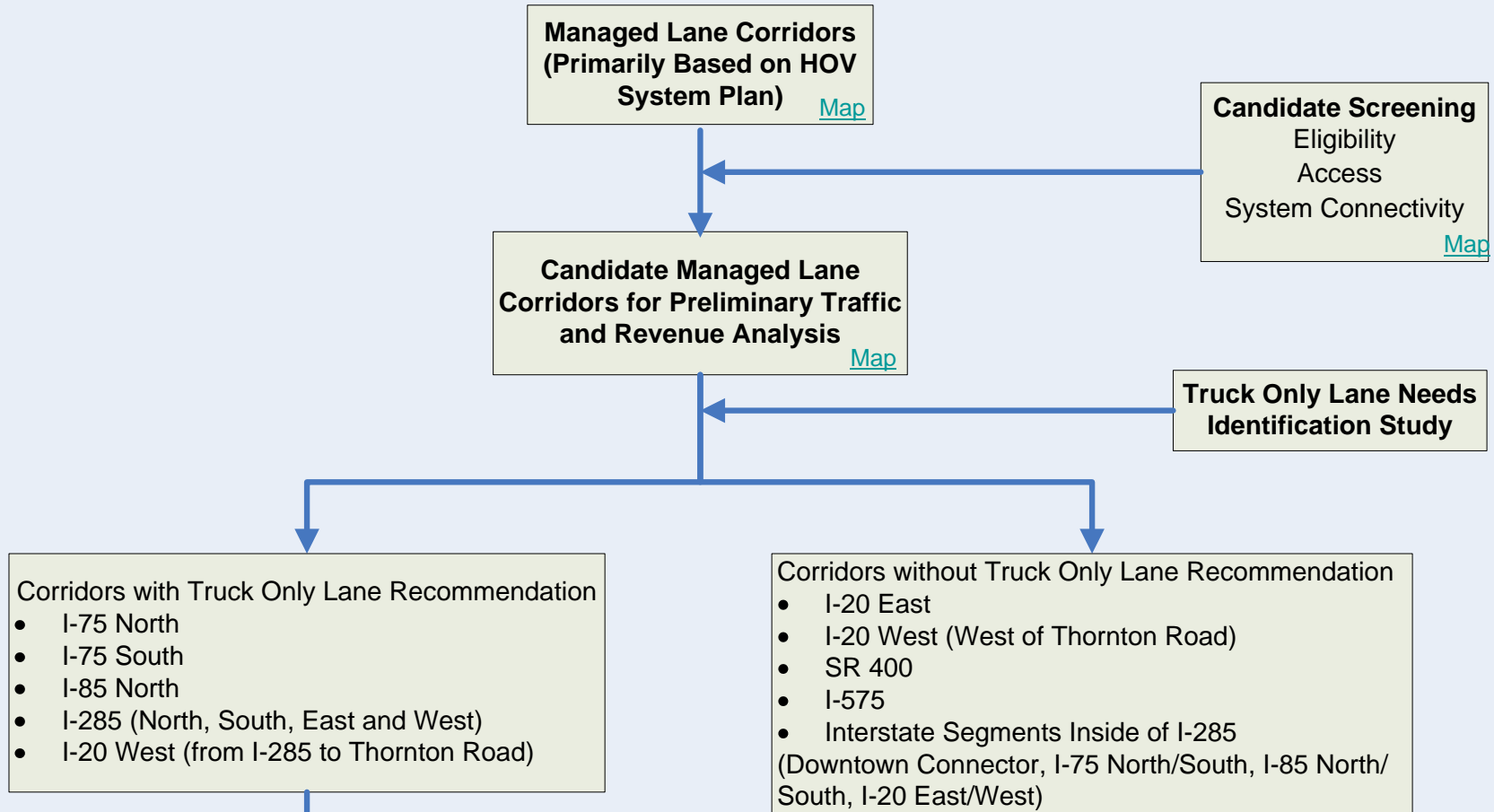
- Step 1:
  - T&R Corridor Identification
- Step 2:
  - Toll Sensitivity Analysis
  - By Corridor and Segment
- Step 3:
  - System-wide Investment Policy
  - System Performance Analysis



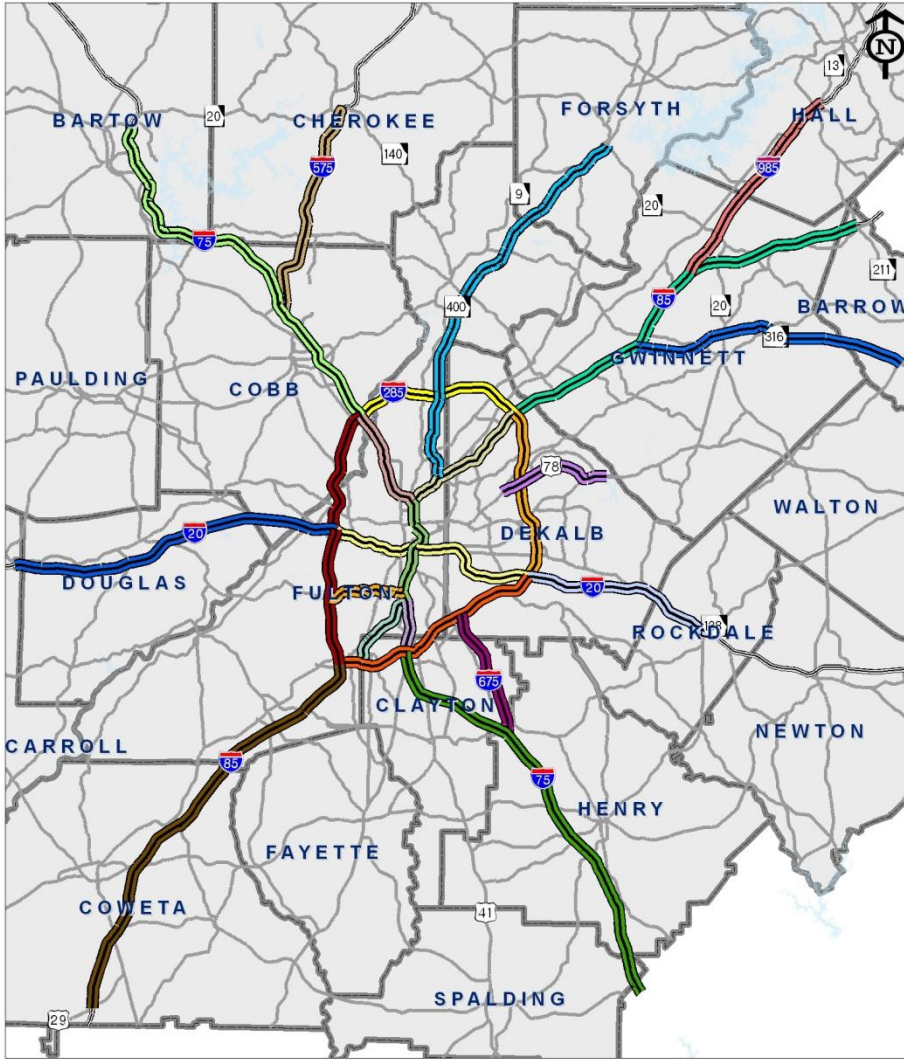
# Traffic and Revenue Analysis Process Overview

## Step 1

### Step 1 – Traffic and Revenue Analysis Corridor Identification



# MLSP Corridors



- I-75 North from I-285 North to SR 20
- I-75 South from I-285 South to SR 16
- I-85 North from I-285 North to SR 211
- I-85 South from I-285 South to US 29
- I-20 East from I-285 East to SR 138
- I-20 West from I-285 West to Post Road
- I-285 South from I-75 South to I-20 East
- I-285 East from I-20 East to I-85 North
- I-285 North from I-85 North to I-75 North
- I-285 Northwest from I-75 North to I-20 West
- I-285 Southwest from I-20 West to I-75 South
- Inside I-285 (I-75, I-85, I-20, Langford Parkway)
- I-575 from I-75 to SR 20
- I-675 from I-75 to I-285
- I-985 from I-85 to SR 13
- SR 400 from I-85 to SR 20
- SR 316 from I-85 to SR 81
- US 78 from N Druid Hills Road to Rockbridge Road

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# Candidate Corridor Screening



- **Tier 1 (Highest Priority)**

- ✓ I-75 North from I-285 North to SR 20
- ✓ I-85 North from I-285 North to SR 211
- ✓ I-20 East from I-285 East to SR 138
- ✓ I-285 North from I-85 North to I-75 North
- ✓ I-285 East from I-20 East to I-85 North
- ✓ SR 400 from I-85 to SR 20

- **Tier 2**

- ✓ I-75 South from I-285 South to SR 16
- ✓ I-20 West from I-285 West to Post Road
- ✓ I-285 West from I-75 North to I-20 West
- ✓ Inside I-285 (I-75, I-85, I-20)
- ✓ I-575 from I-75 to SR 20

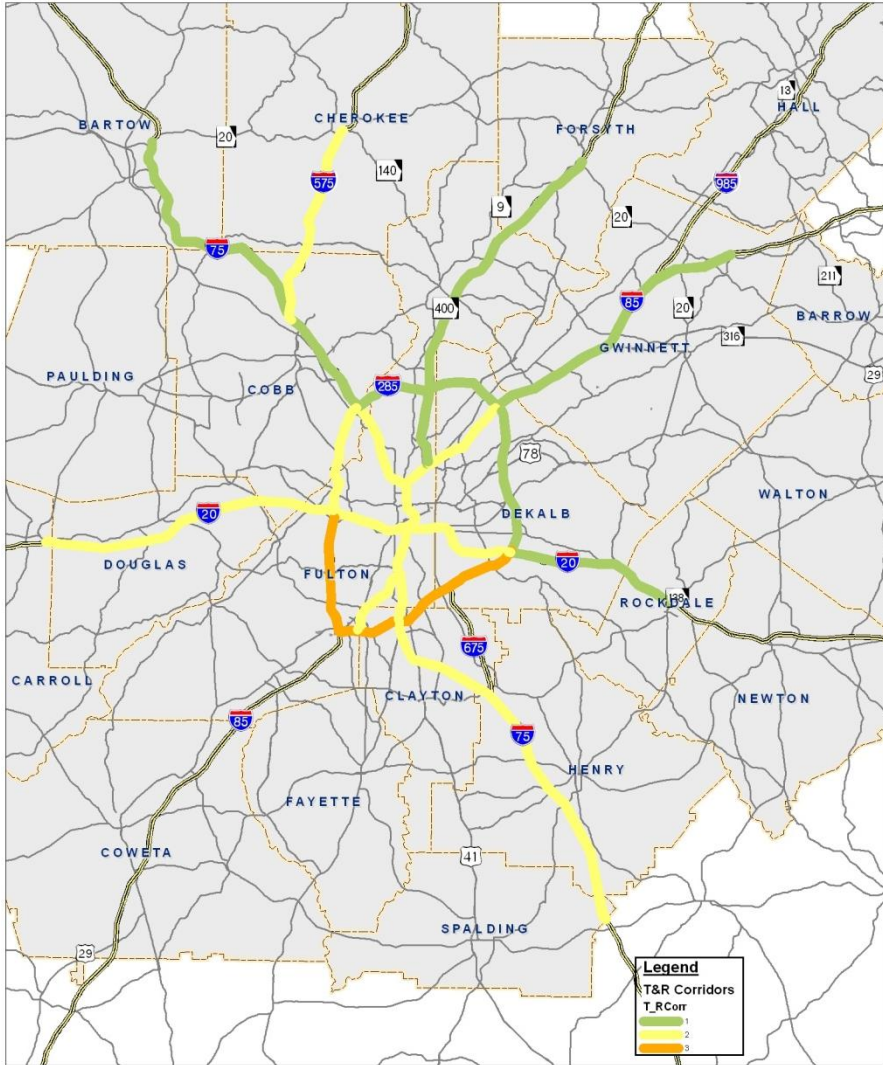
- **Tier 3 (Lowest Priority)**

- ✓ I-85 South from I-285 South to US 29
- ✓ I-285 South of I-20
- ✓ I-675 from I-75 to I-285
- ✓ I-985 from I-85 to SR 13
- ✓ SR 316 from I-85 to SR 81
- ✓ US 78 from N Druid Hills Road to Rockbridge Road
- ✓ Langford Parkway

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# Traffic and Revenue Analysis Corridors



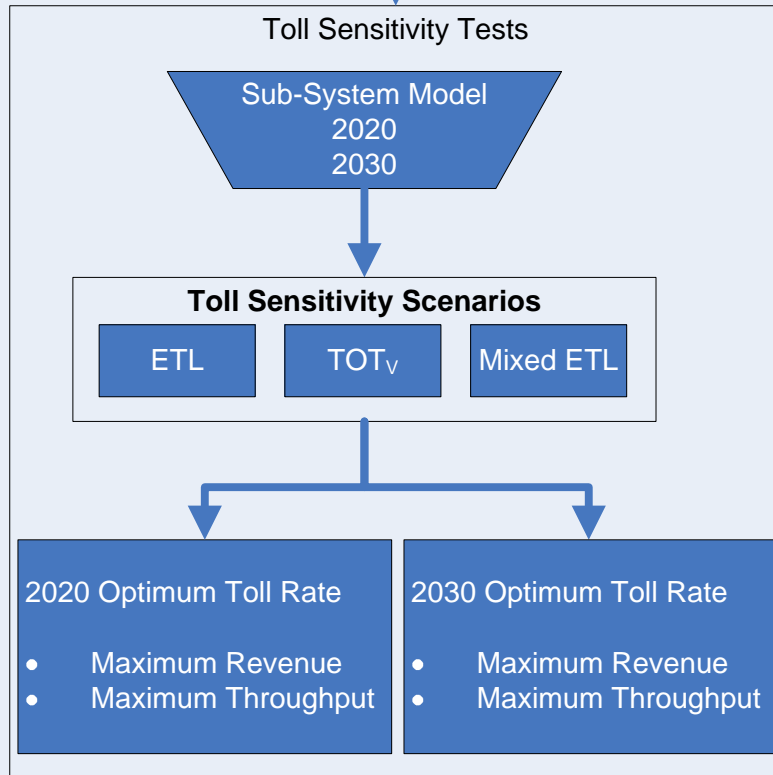
- **Tier 1 (Highest Priority)**
  - ✓ I-75 North from I-285 North to SR 20
  - ✓ I-85 North from I-285 North to SR 211
  - ✓ I-20 East from I-285 East to SR 138
  - ✓ I-285 North from I-85 North to I-75 North
  - ✓ I-285 East from I-20 East to I-85 North
  - ✓ SR 400 from I-85 to SR 20
- **Tier 2**
  - ✓ I-75 South from I-285 South to SR 16
  - ✓ I-20 West from I-285 West to Post Road
  - ✓ I-285 West from I-75 North to I-20 West
  - ✓ Inside I-285 (I-75, I-85, I-20)
  - ✓ I-575 from I-75 to SR 20
- **Tier 3 (Lowest Priority)**
  - ✓ I-285 South of I-20



# Traffic and Revenue Analysis Process Overview

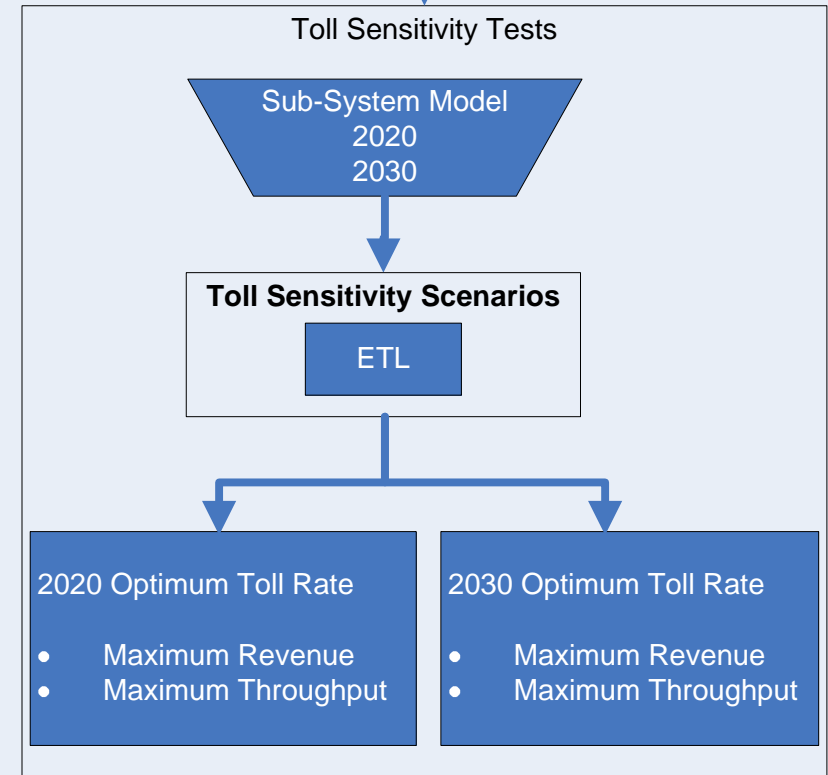
## Step 2

### Step 2 - Toll Sensitivity Analysis



#### Model Output:

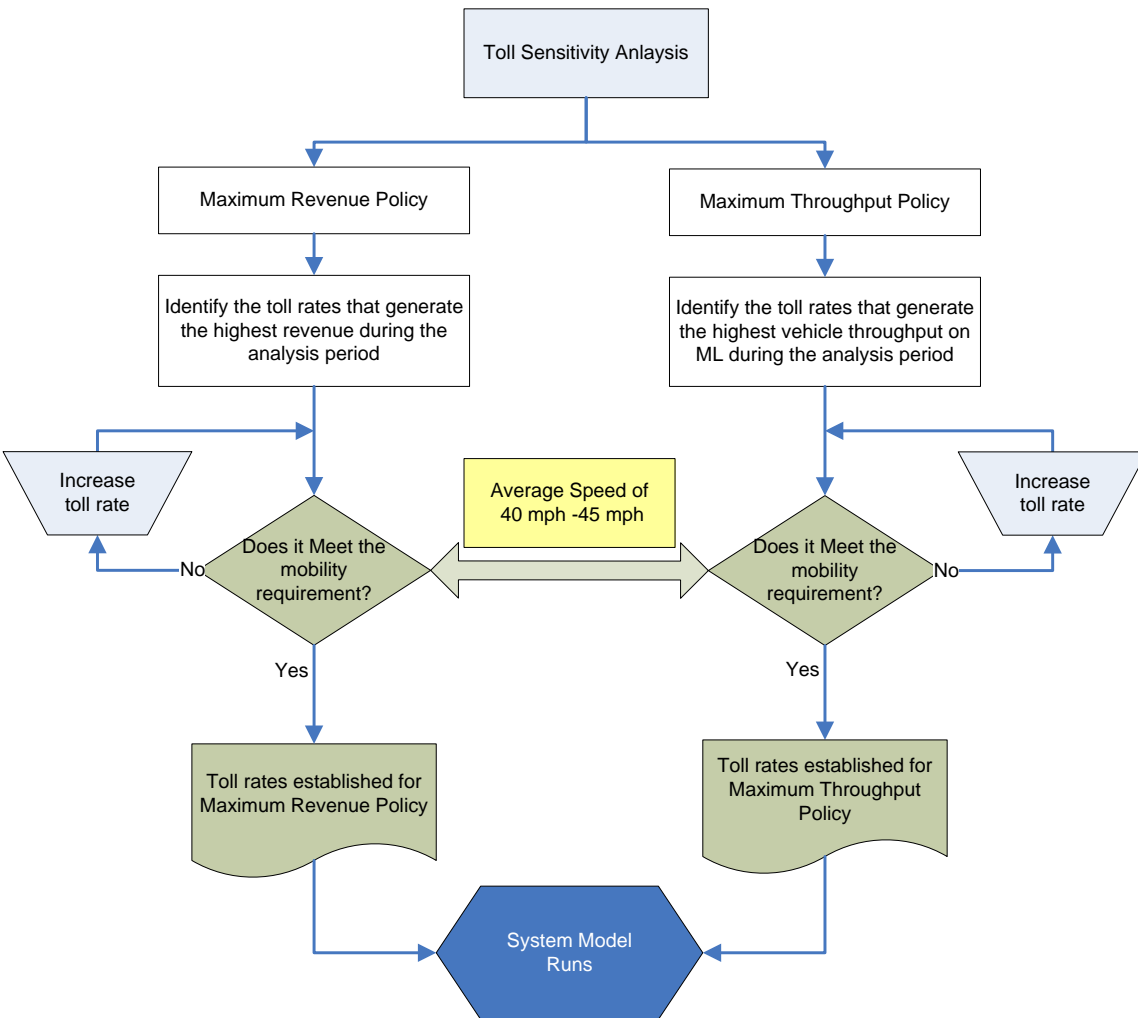
- Revenue
- Travel Time
- Travel Speed
- Travel Time Index
- Total Vehicles (by period and by vehicle Type)
- Total Vehicle Delay





# Traffic and Revenue Analysis Process Overview

## Step 2

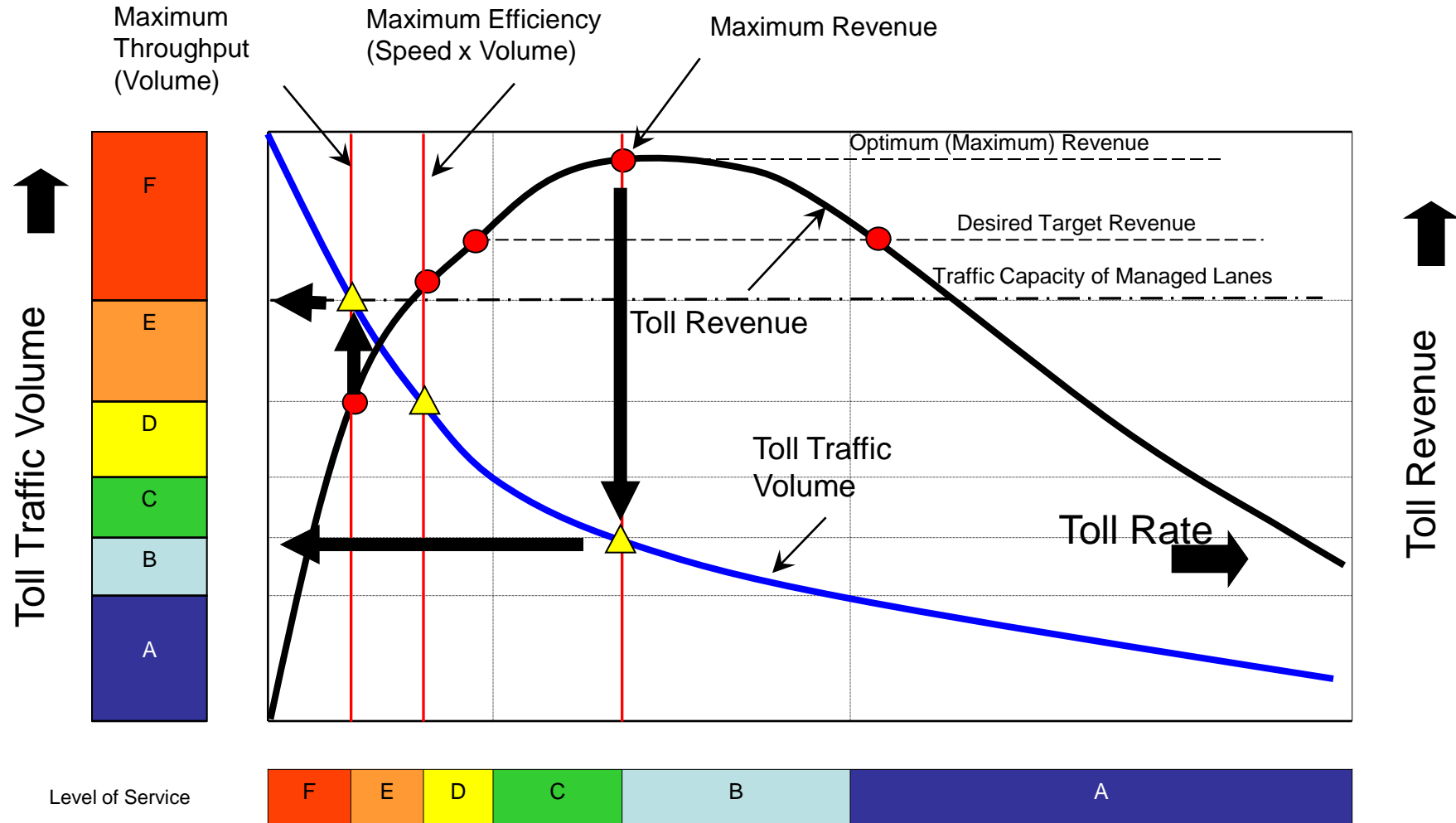


- A measure of how sensitive users of a managed facility are to increasing toll rates

- Determine the toll rates for:
  - Maximum Revenue Policy
  - Maximum Throughput Policy

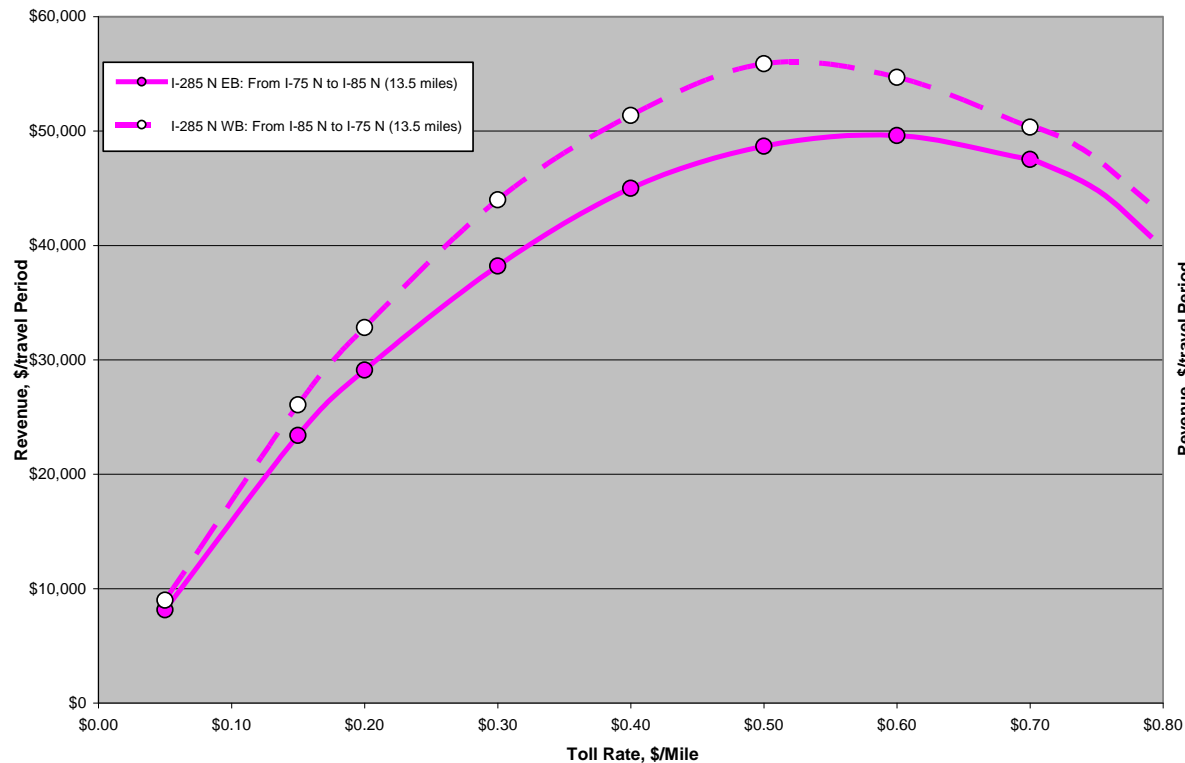


# Toll Sensitivity Analysis

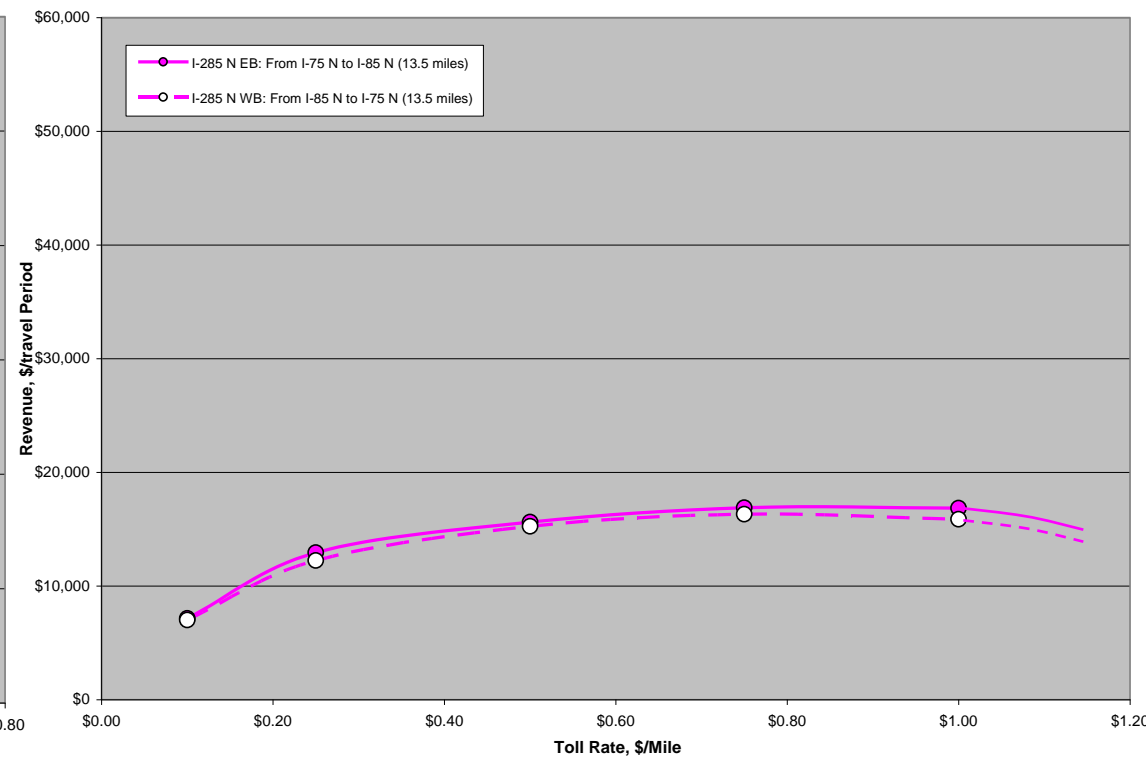


# I-285 North Corridor – Toll Sensitivity Analysis

## ■ ETL Sensitivity Curve



## ■ TOT<sub>v</sub> Sensitivity Curve

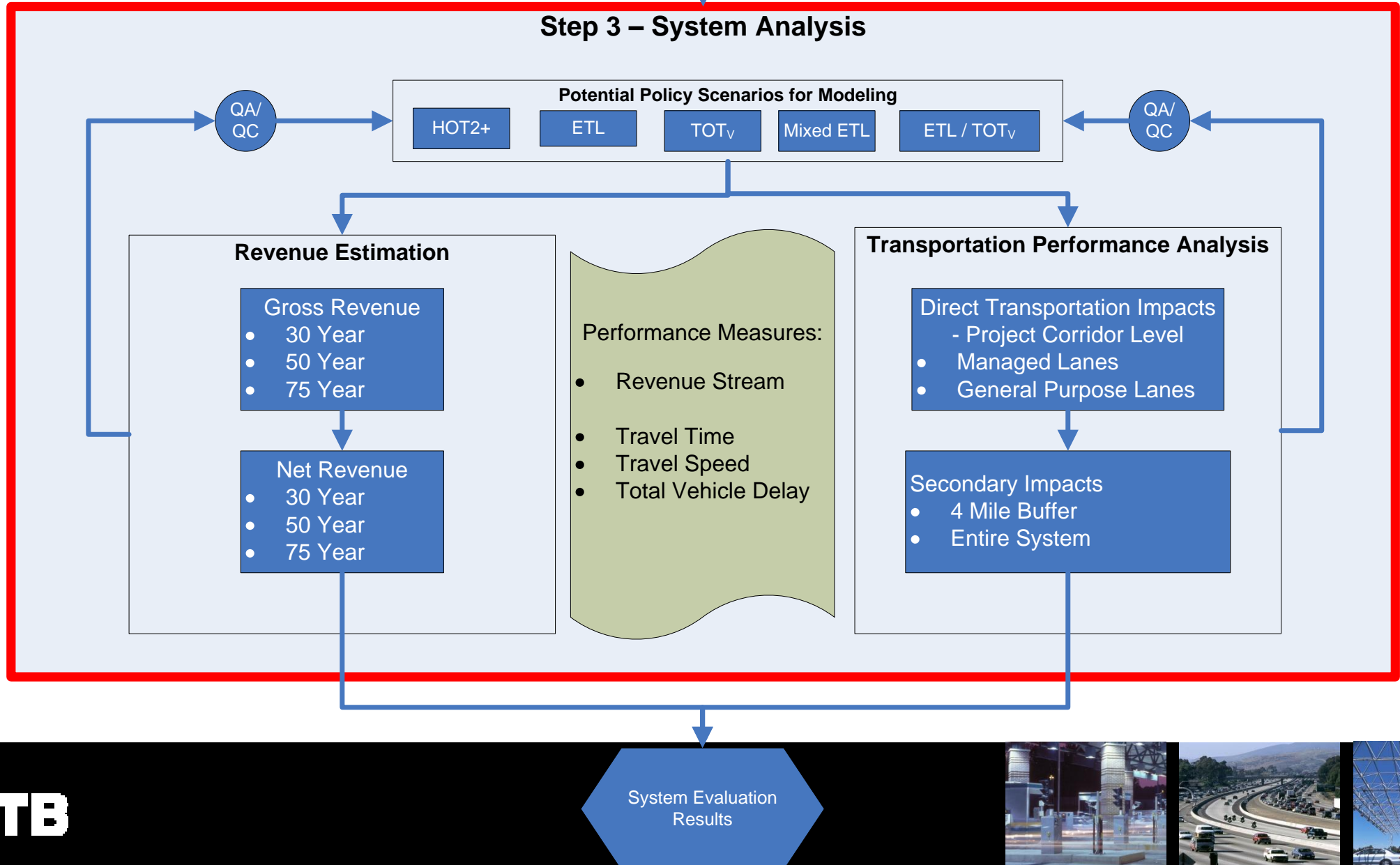


2030 PM Period Revenue Sensitivity Curves



# Traffic and Revenue Analysis Process Overview

## Step 3





# HOT Policy (HOT2+, HOT3+, HOT4+) – 2 Lanes

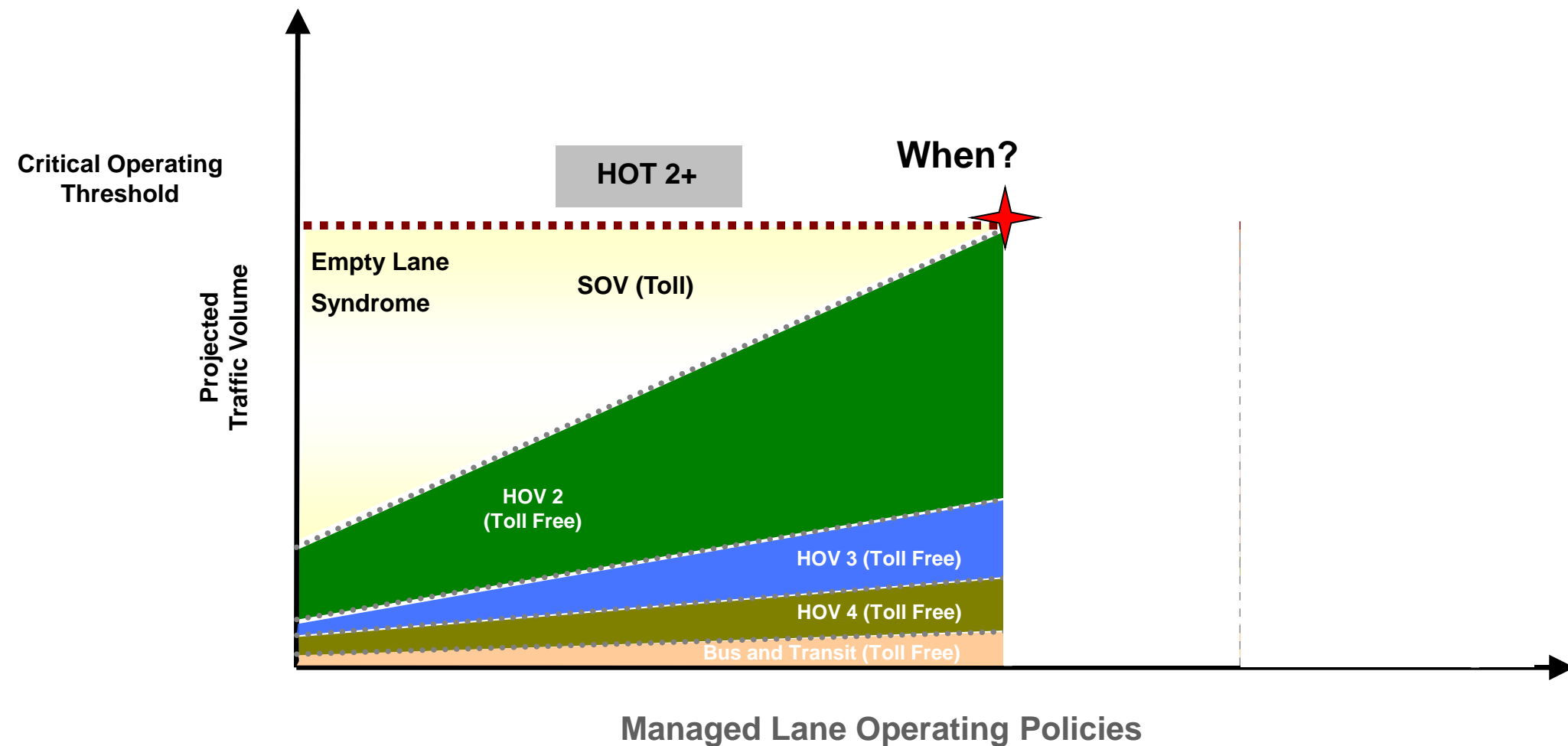


## ■ Base Case

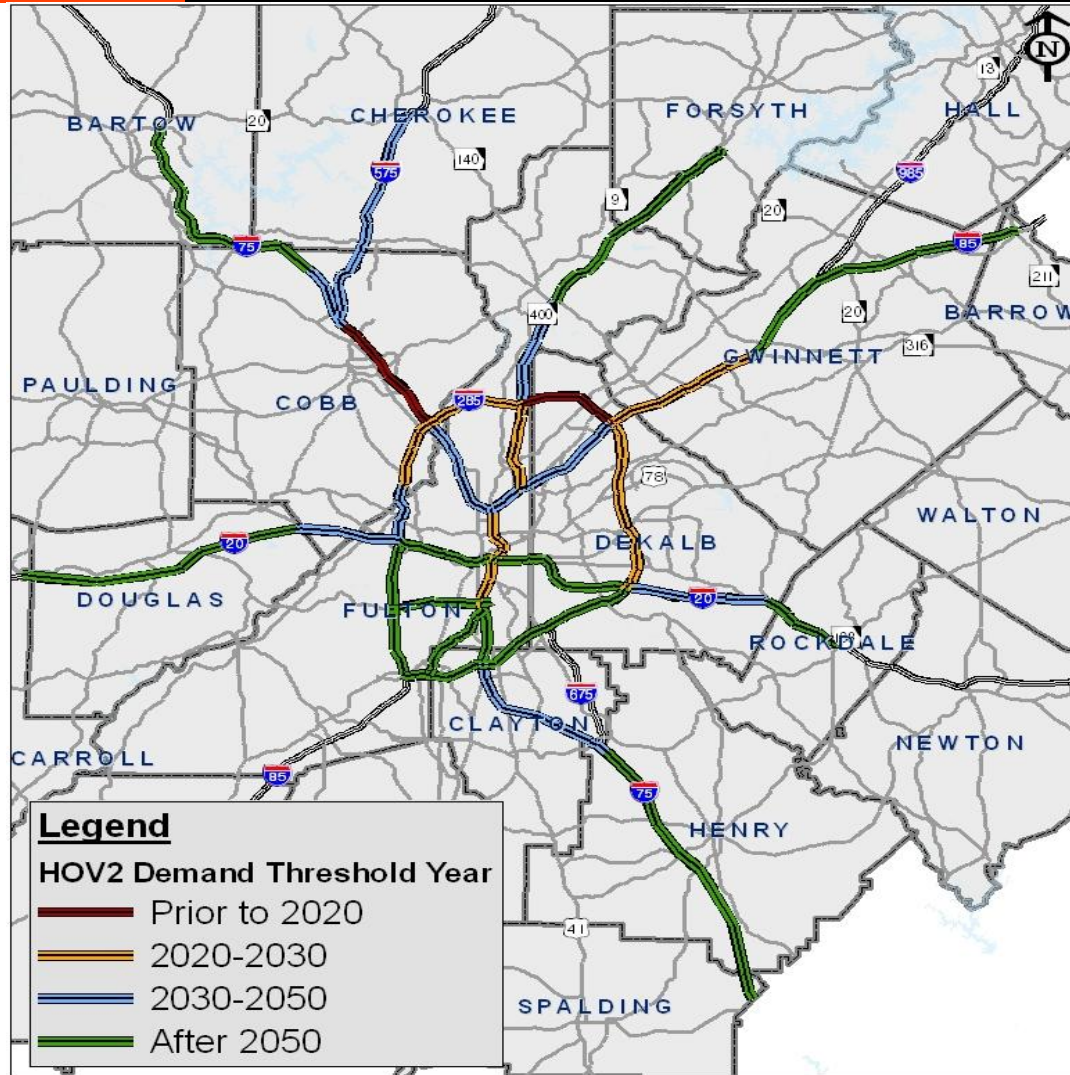
- If Existing HOV Lane
  - Convert HOV Lane & Build 1 New HOT Lane in each direction
- If No Existing HOV Lane
  - Build 2 New HOT Lanes in each direction
- Barrier Separated and Buffer Separated
- Approximately 1,100 new lane miles



# Lifespan of a HOV-HOT Facility



# HOV Demand Threshold



- HOV2 free policy
- Assumed 2 HOV Lanes in each direction with the same access points as proposed for the ML
- Used the speed of 45 mph to identify HOV demand threshold time range
  - Prior to 2020 (I-75N, I-285N)
  - 2020 – 2030 (I-85N, I-285E, etc.)
  - 2030 – 2050 (I-75S, I-20E, etc.)
  - After 2050 (I-285S, etc.)
- No Revenue Estimation for HOT2+ Policy if there is no capacity for sale prior to 2020





# ETL Policy – 2 Lanes



- Base Case
  - If Existing HOV Lane
    - Convert HOV Lane & Build 1 New Managed Lane in each direction
  - If No Existing HOV Lane
    - Build 2 New Managed Lanes in each direction
  - Barrier Separated and Buffer Separated
  - Approximately 1,100 new lane miles





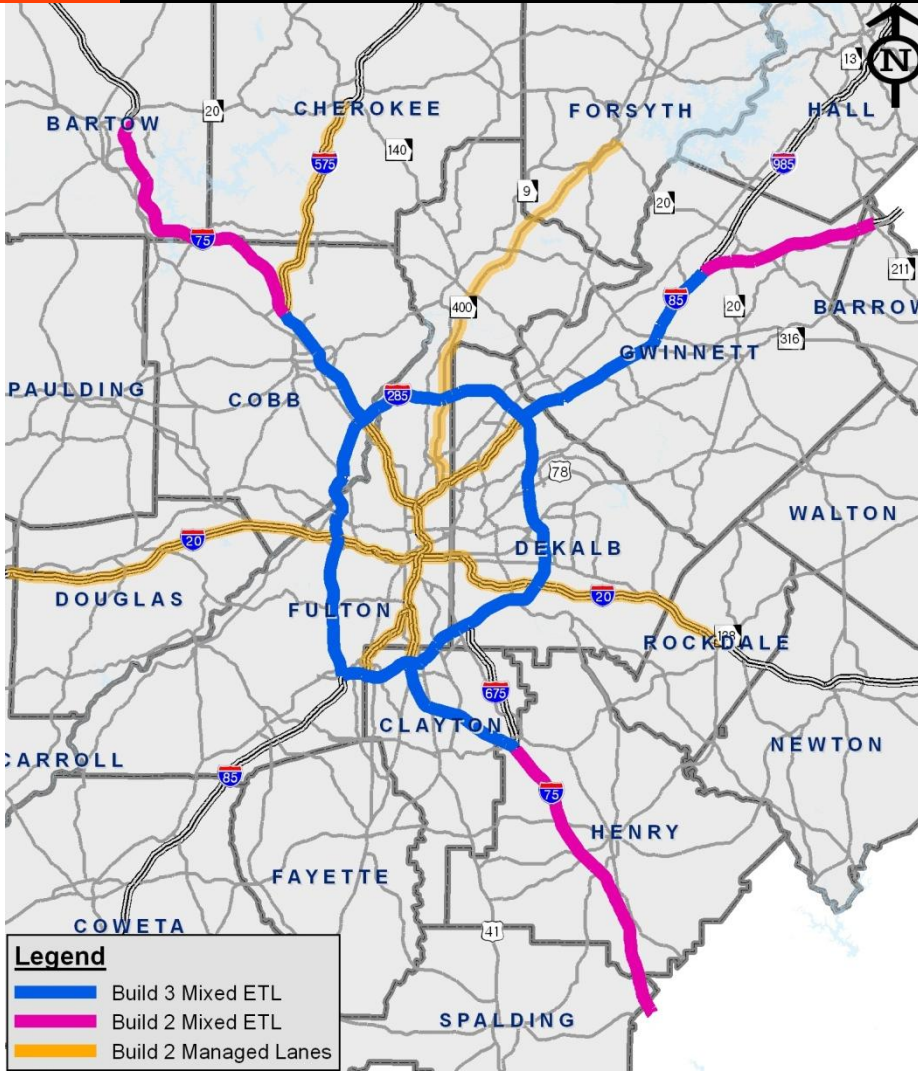
# TOT Lane Policy – 2 Lanes



- Base Case
  - Build 2 New Truck Only Toll Lane in each direction
  - Barrier Separated and Buffer Separated
  - Approximately 680 new lane miles



# Mixed ETL Policy – 2/3 Lanes



## ■ Base Case

- Same Corridors as the TOT Network
  - Except for portion of I-20 West
- If Existing Lanes  $\geq 4$ 
  - Build 3 Mixed ETL Lanes
- If Existing Lanes  $< 4$ 
  - Build 2 Mixed ETL Lanes
- Approximately 1,500 new lane miles



# ETL – 2 Lanes + TOT – 2 Lanes Policy



- Base Case
  - Same Corridors as the TOT Network
  - Addition of 2 Lanes for ETL along the TOT Corridors
  - Approximately 1,800 new lane miles





# Lane Methodology

# of Managed Lanes (Each Direction)	Policy	Number of General Purpose Lanes				
		2	3	4	5	6+
2	ETL	X	✓	✓	✓	✓
	TOT	X	✓	✓	✓	✓
	Mixed ETL	X	✓	✓	✓	✓
3	Mixed ETL	X	X	✓	✓	✓
2/2	ETL / TOT	TOL Study Recommendations				

- 3-lane Mixed ETL policy was assumed only where the number of general purpose lanes is 4 or more
- 2-lane Mixed ETL policy was assumed where there are 3 general purpose lanes
- Intent was to provide system lane balance between general purpose lanes and managed lanes





# Traffic & Revenue By Corridor



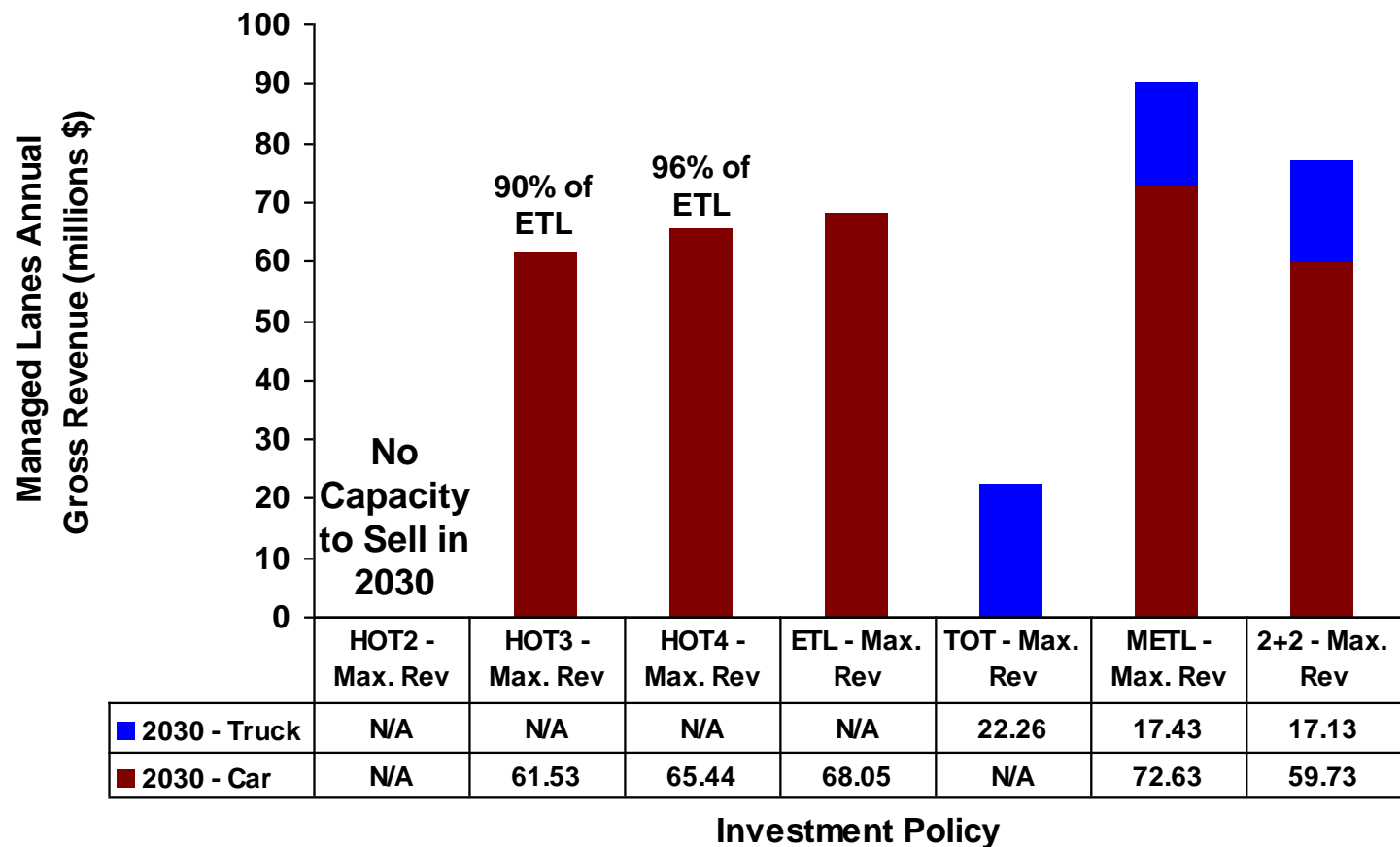
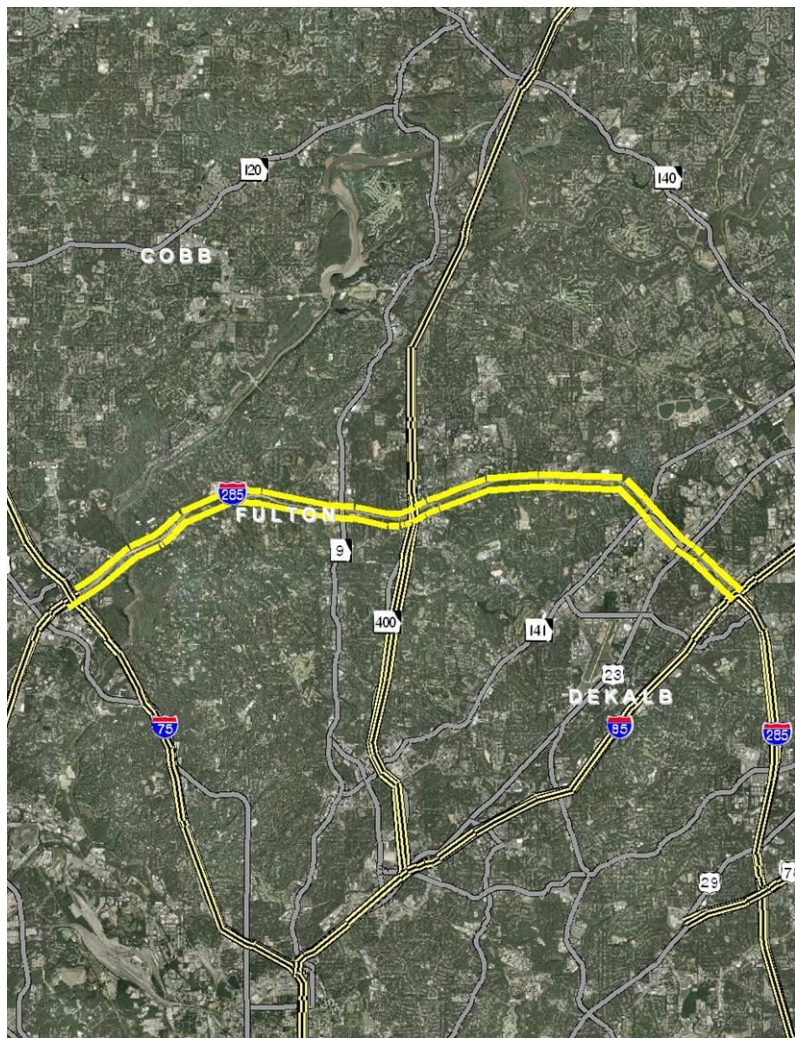
# Corridors with Truck Only Lane Recommendations

Lane Configuration	Investment Policy Scenarios	I-285 Corridor	I-75 North and South Corridor	I-85 North Corridor	I-20 West (I-285 to Thornton Rd)
2-Lane Each Direction	HOT(HOT2+, HOT3+, HOT 4+)	√-Results Review	√-Results Review	√-Results Review	√-Results Review
	ETL	√-Results Review	√-Results Review	√-Results Review	√-Results Review
	TOT <sub>V</sub>	√-Results Review	√-Results Review	√-Results Review	√-Results Review
3-Lane Each Direction	Mixed ETL	√-Results Review	√-Results Review	√-Results Review	√-Results Review
4-Lane Each Direction	ETL & TOT <sub>V</sub>	√-Results Review	√-Results Review	√-Results Review	√-Results Review





# I-285 North Corridor – Max Revenue Forecast



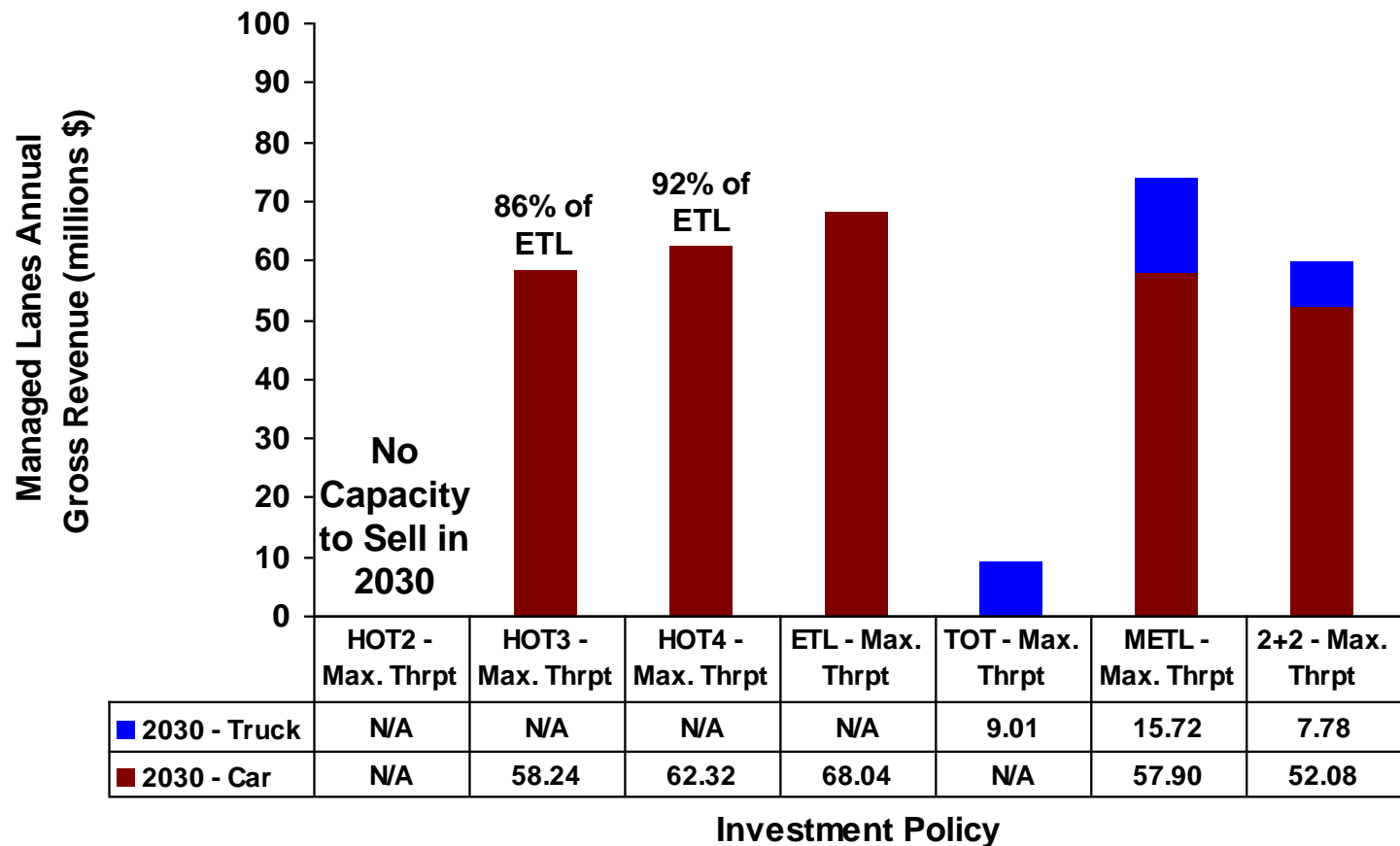
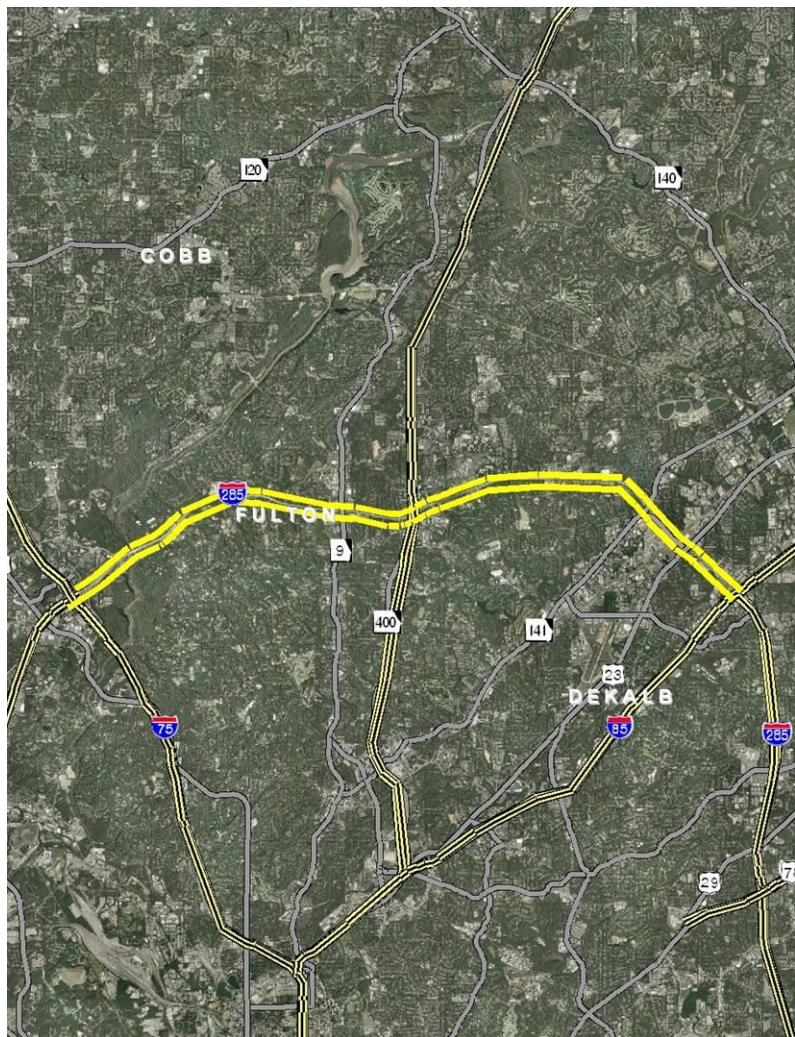
Distance ≈ 14 Miles







# I-285 North Corridor – Max Throughput Forecast



Distance ≈ 14 Miles

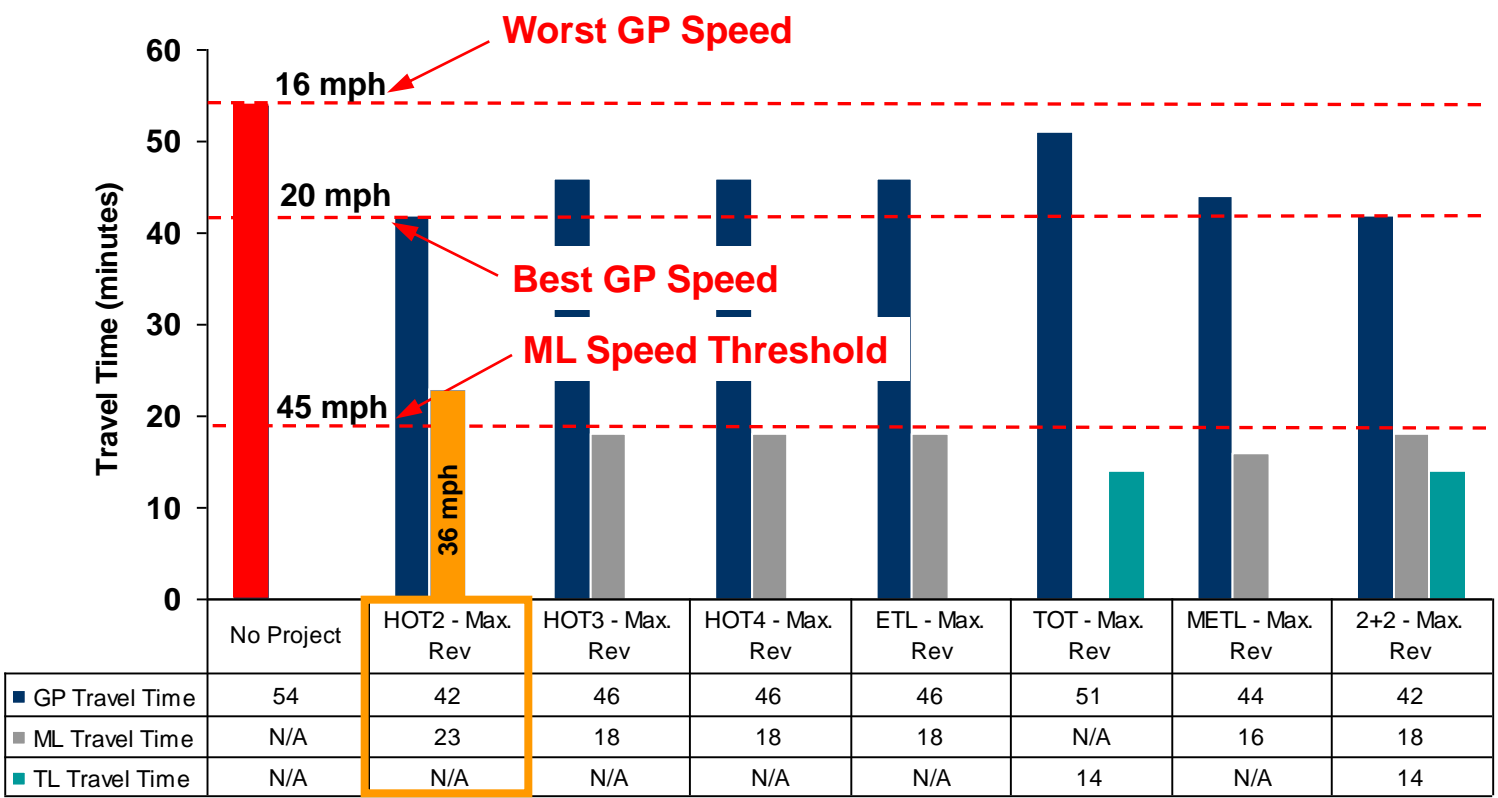
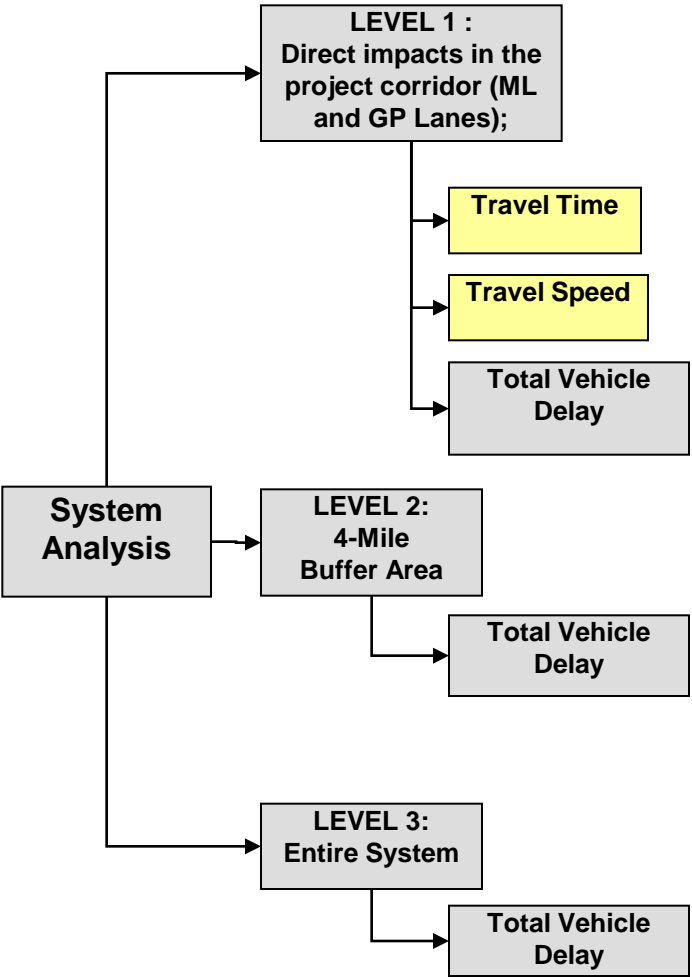






# I-285 North Corridor

## – Transportation User Benefits (2030 Max Revenue)



### Investment Policy

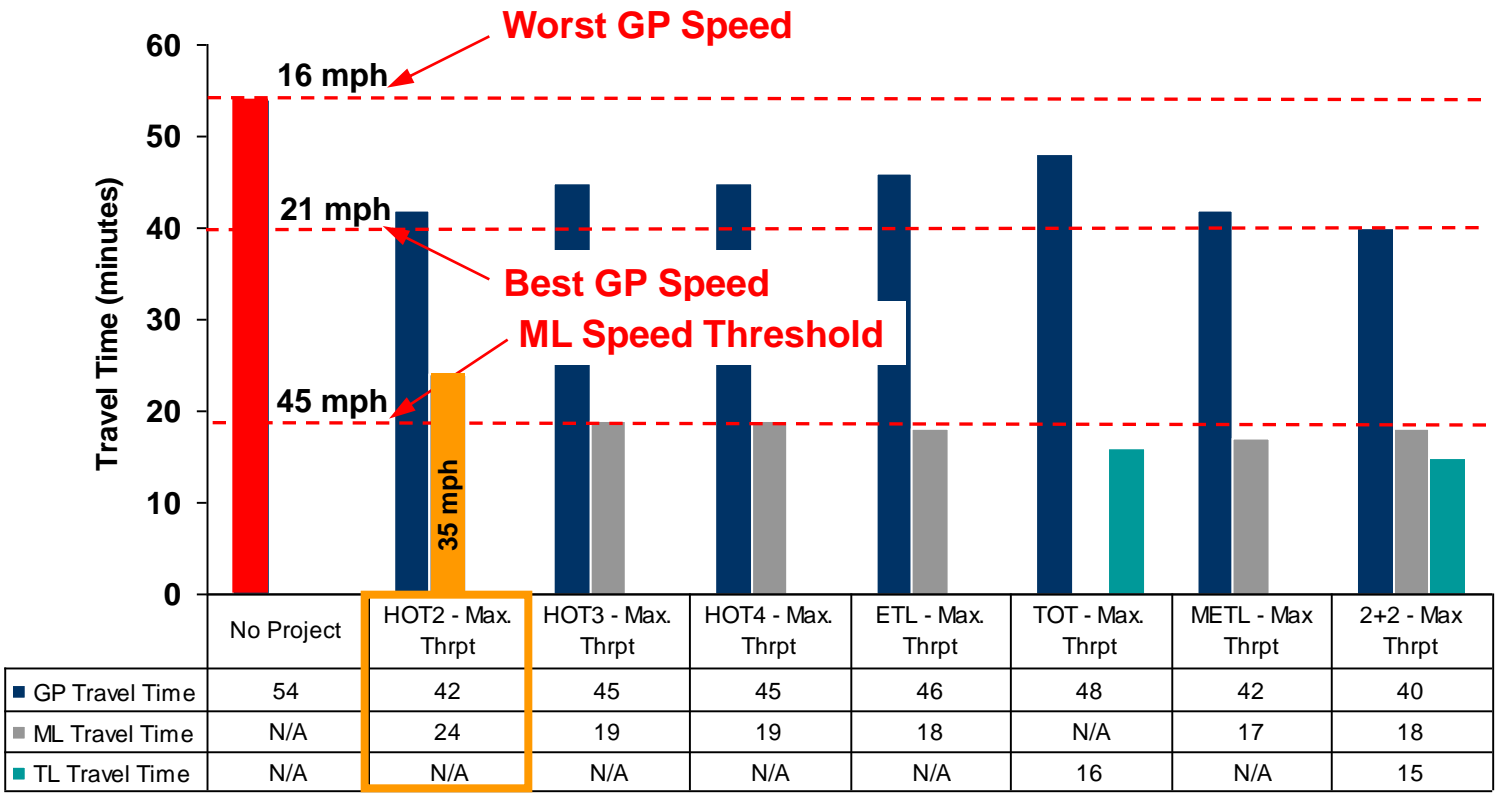
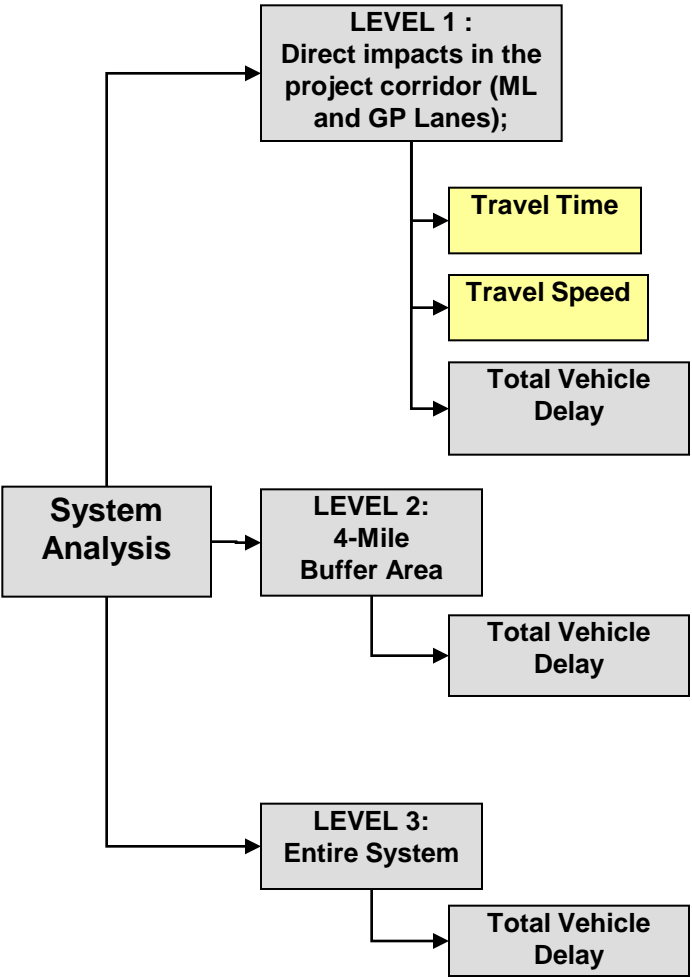
- Distance ≈ 14 Miles
- GP Travel Speed: 16 - 20 mph
- ML Travel Speed: 47 - 52 mph
- TL Travel Speed: 60 mph





# I-285 North Corridor

## – Transportation User Benefits (2030 Max Throughput)



### Investment Policy

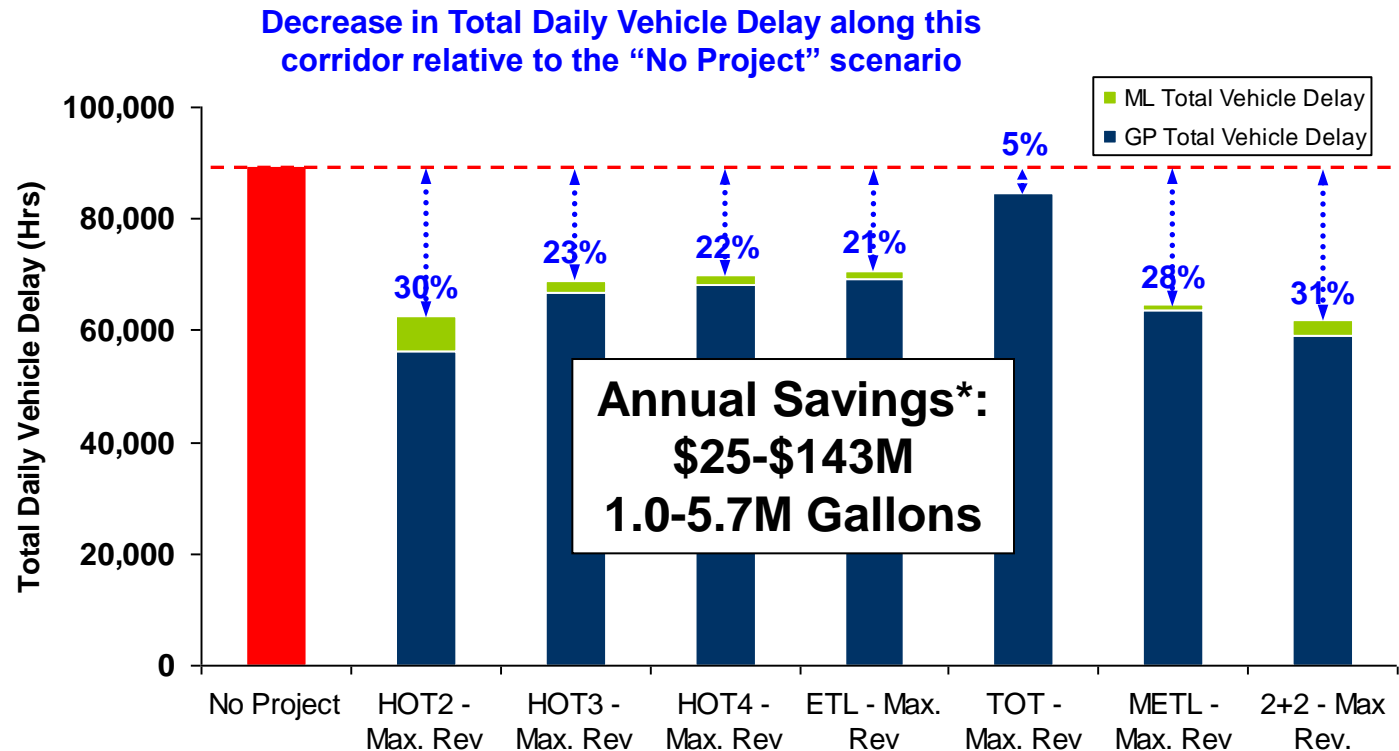
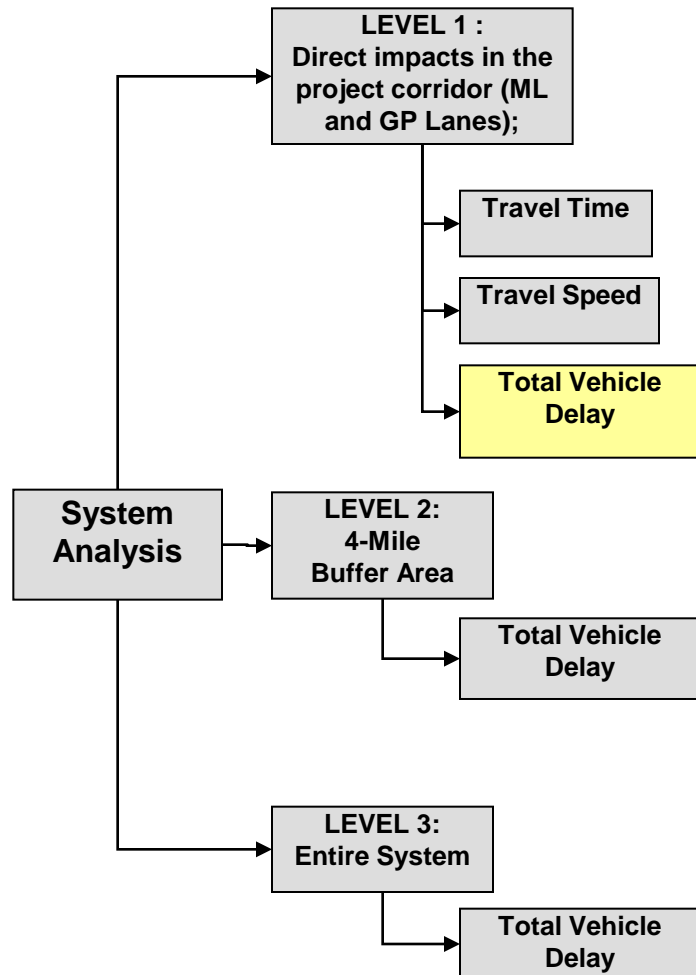
- Distance ≈ 14 Miles
- GP Travel Speed: 16 - 21 mph
- ML Travel Speed: 45 - 49 mph
- TL Travel Speed: 52 - 56 mph





# I-285 North Corridor

## – Transportation User Benefits (2030 Max Revenue)



\*Potential range of savings realized in this corridor, in year 2030, if ML are implemented. Numbers derived using Texas Transportation Institute assumptions of \$17.20/hr and 0.68 gallons of fuel/hr. Low end of range associated with TOT Maximum Revenue policy and high end of range associated with 2+2 Maximum Revenue policy.

**Investment Policy**

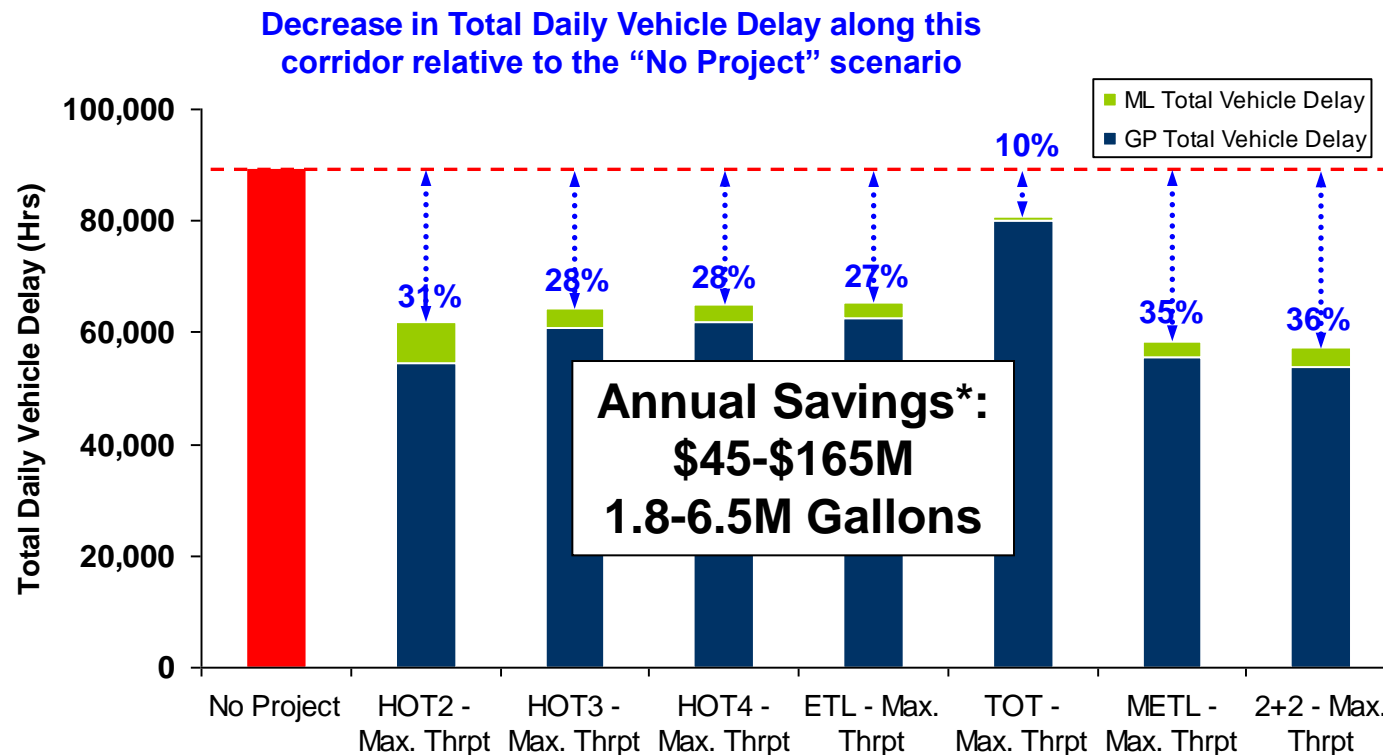
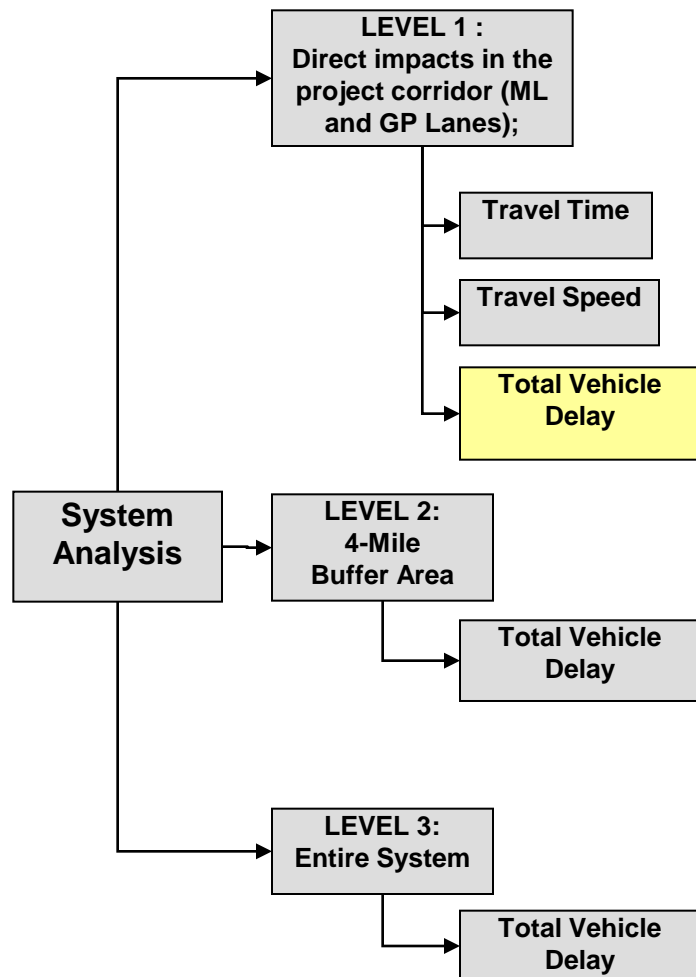
**Distance ≈ 14 Miles**





# I-285 North Corridor

## – Transportation User Benefits (2030 Max Throughput)



\*Potential range of savings realized in this corridor, in year 2030, if ML are implemented. Numbers derived using Texas Transportation Institute assumptions of \$17.20/hr and 0.68 gallons of fuel/hr. Low end of range associated with TOT Maximum Throughput policy and high end of range associated with 2+2 Maximum Throughput policy.

Investment Policy

Distance ≈ 14 Miles

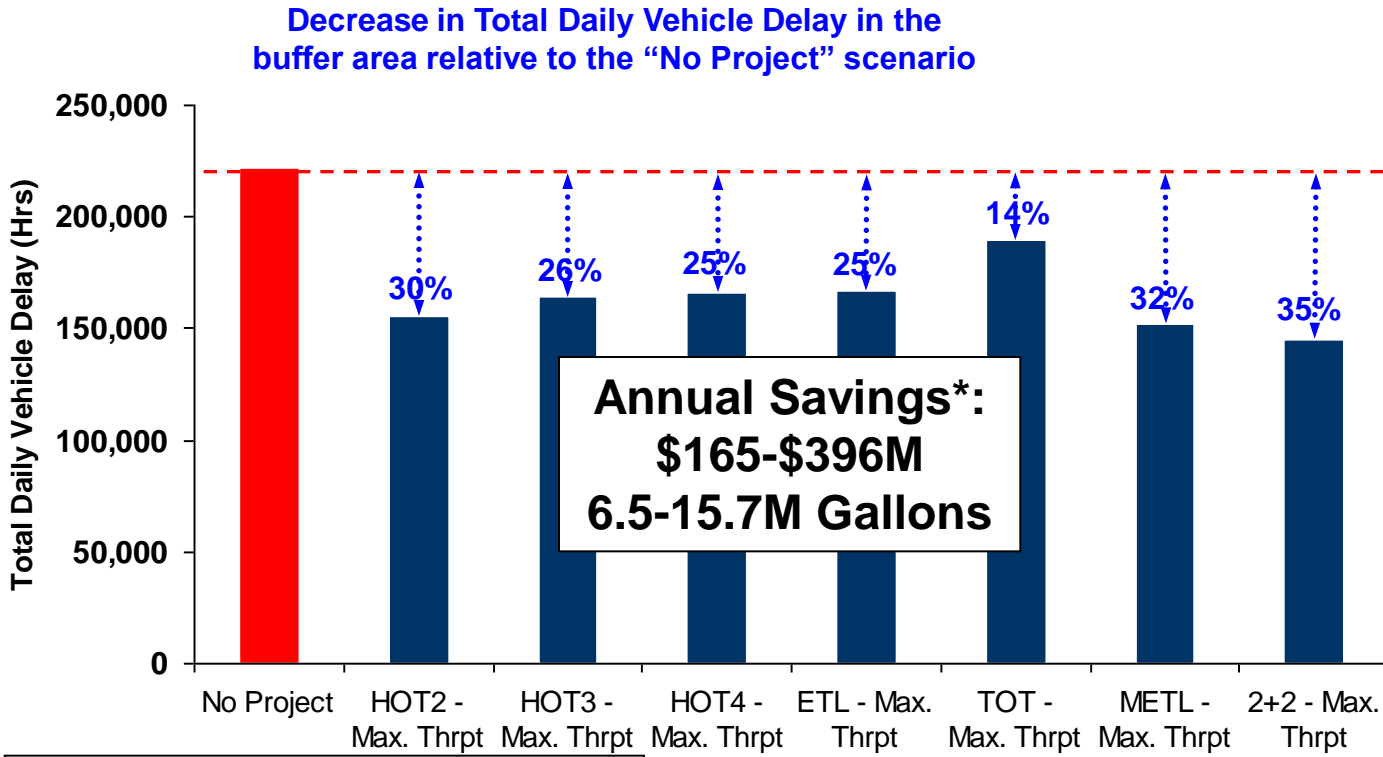
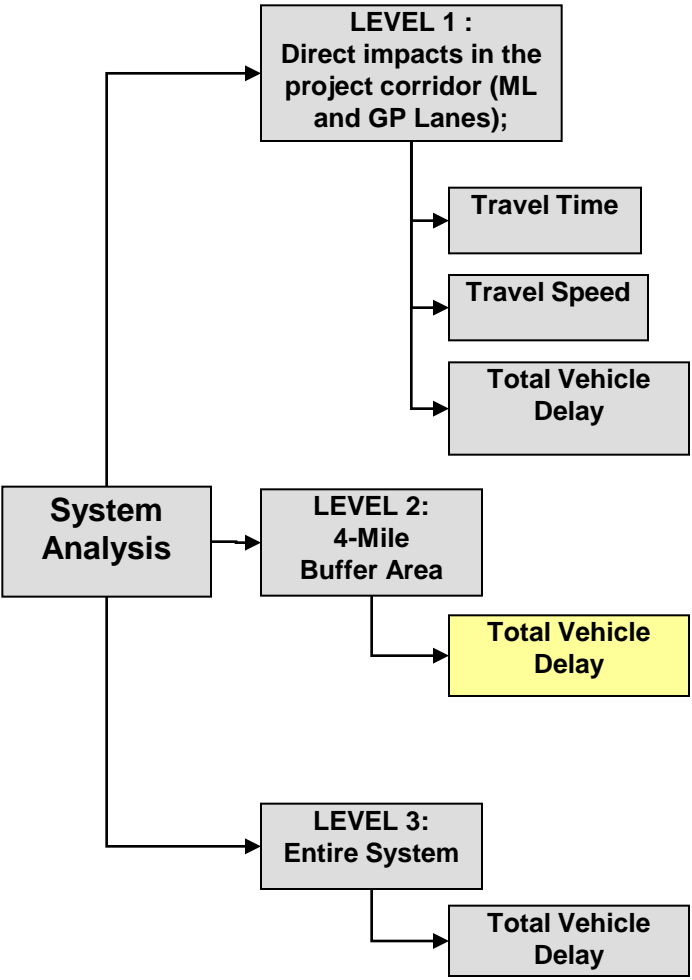






# I-285 North Corridor

## – Transportation User Benefits (2030 Max Throughput)



**Annual Savings\*:**  
**\$165-\$396M**  
**6.5-15.7M Gallons**

\*Potential range of savings realized in this area, in year 2030, if ML are implemented. Numbers derived using Texas Transportation Institute assumptions of \$17.20/hr and 0.68 gallons of fuel/hr. Low end of range associated with TOT Maximum Throughput policy and high end of range associated with 2+2 Maximum Throughput policy.

**Investment Policy**

**Distance ≈ 14 Miles**

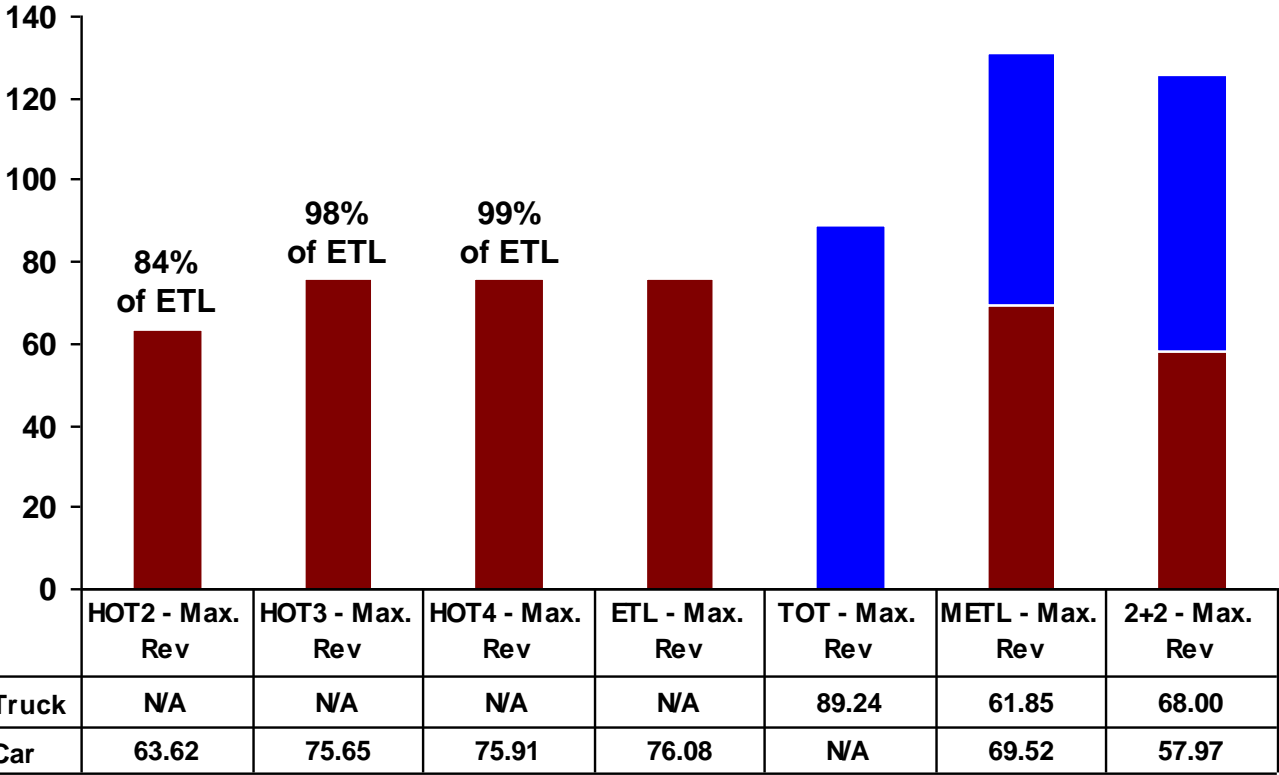




# I-75 South Corridor – Max Revenue Forecast



Managed Lanes Annual  
Gross Revenue (millions \$)



Investment Policy

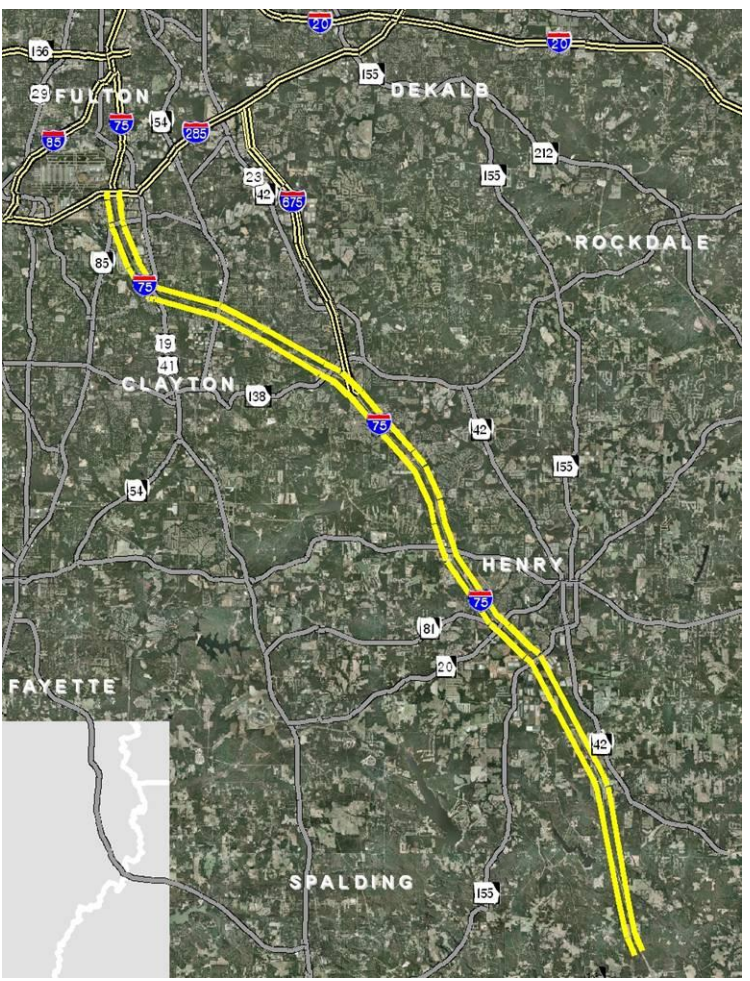
Distance ≈ 34 Miles



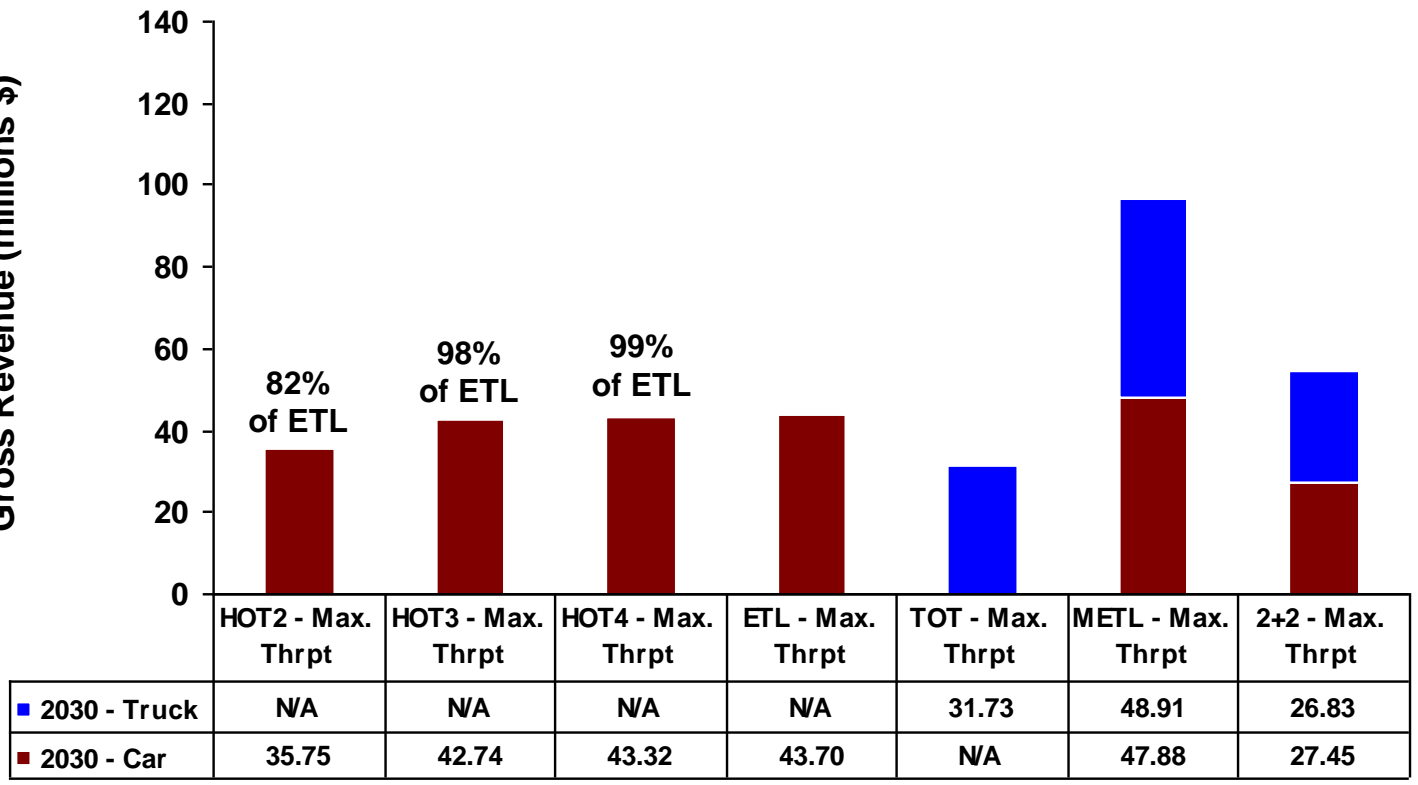




# I-75 South Corridor – Max Throughput Forecast



Managed Lanes Annual  
Gross Revenue (millions \$)



Investment Policy

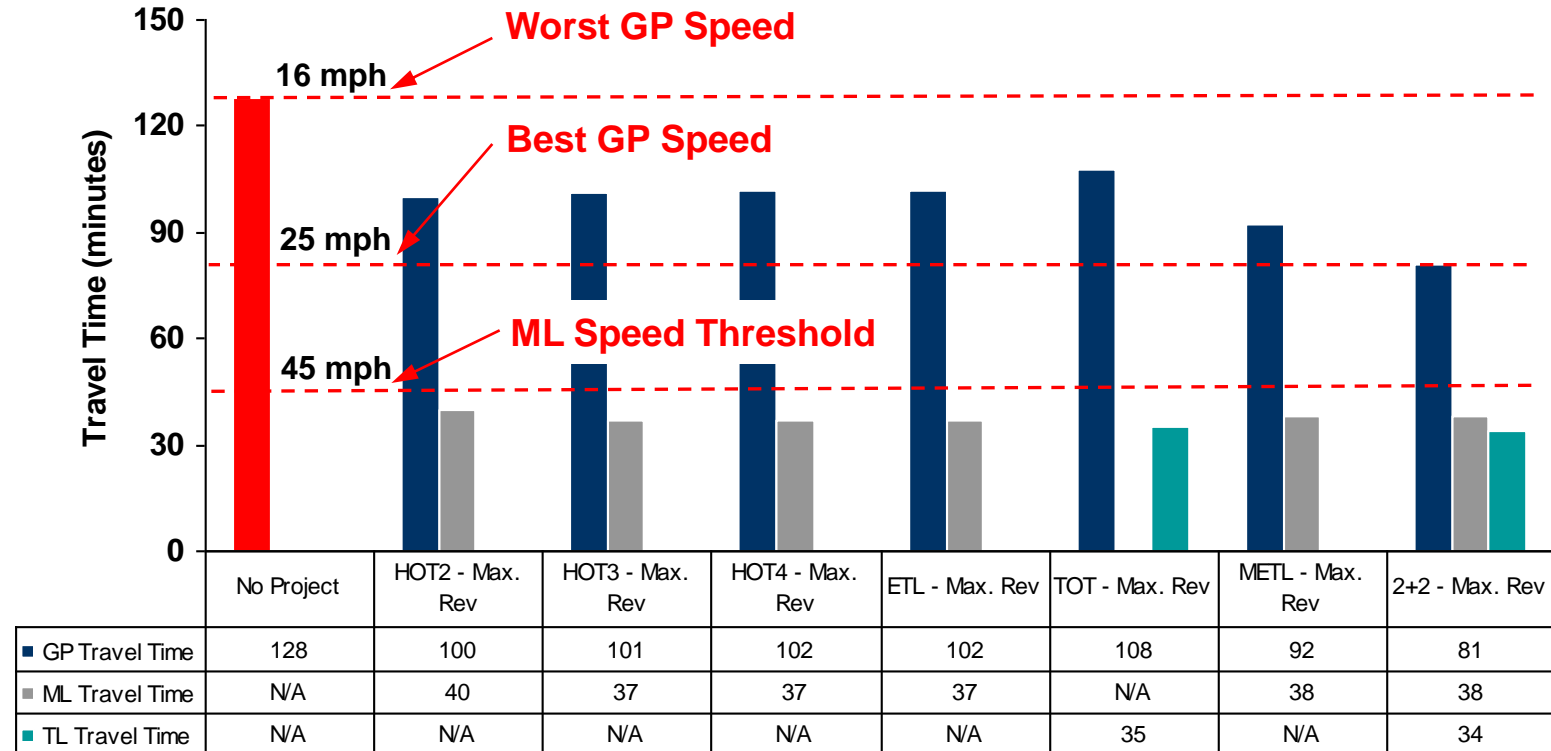
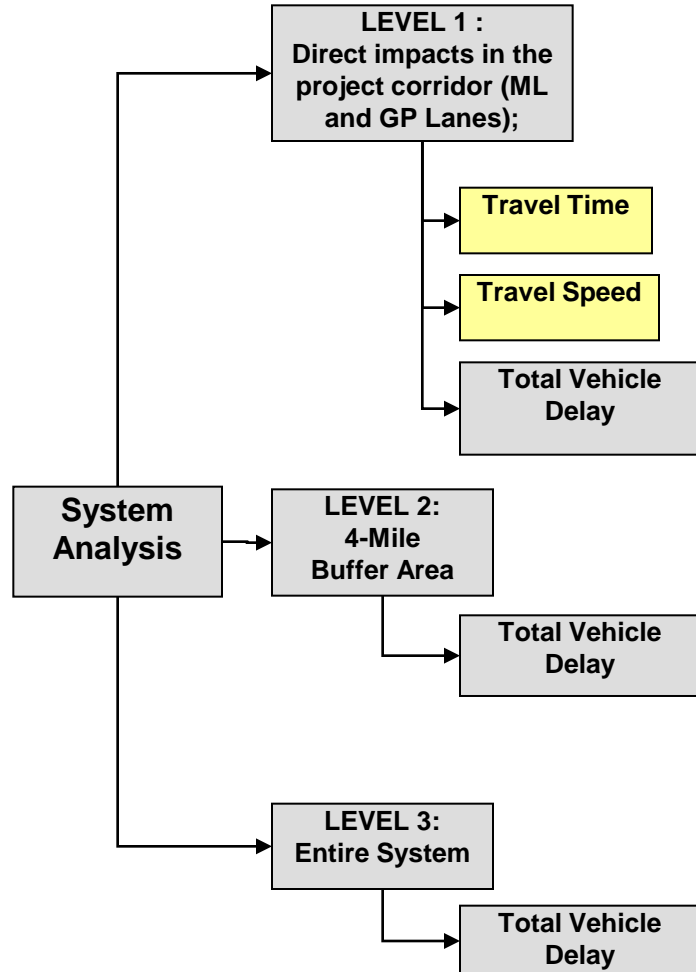
Distance ≈ 34 Miles





# I-75 South Corridor

## – Transportation User Benefits (2030 Max Revenue)



### Investment Policy

- Distance ≈ 34 Miles
- GP Travel Speed: 16 - 25 mph
- ML Travel Speed: 51 - 55 mph
- TL Travel Speed: 58 - 60 mph

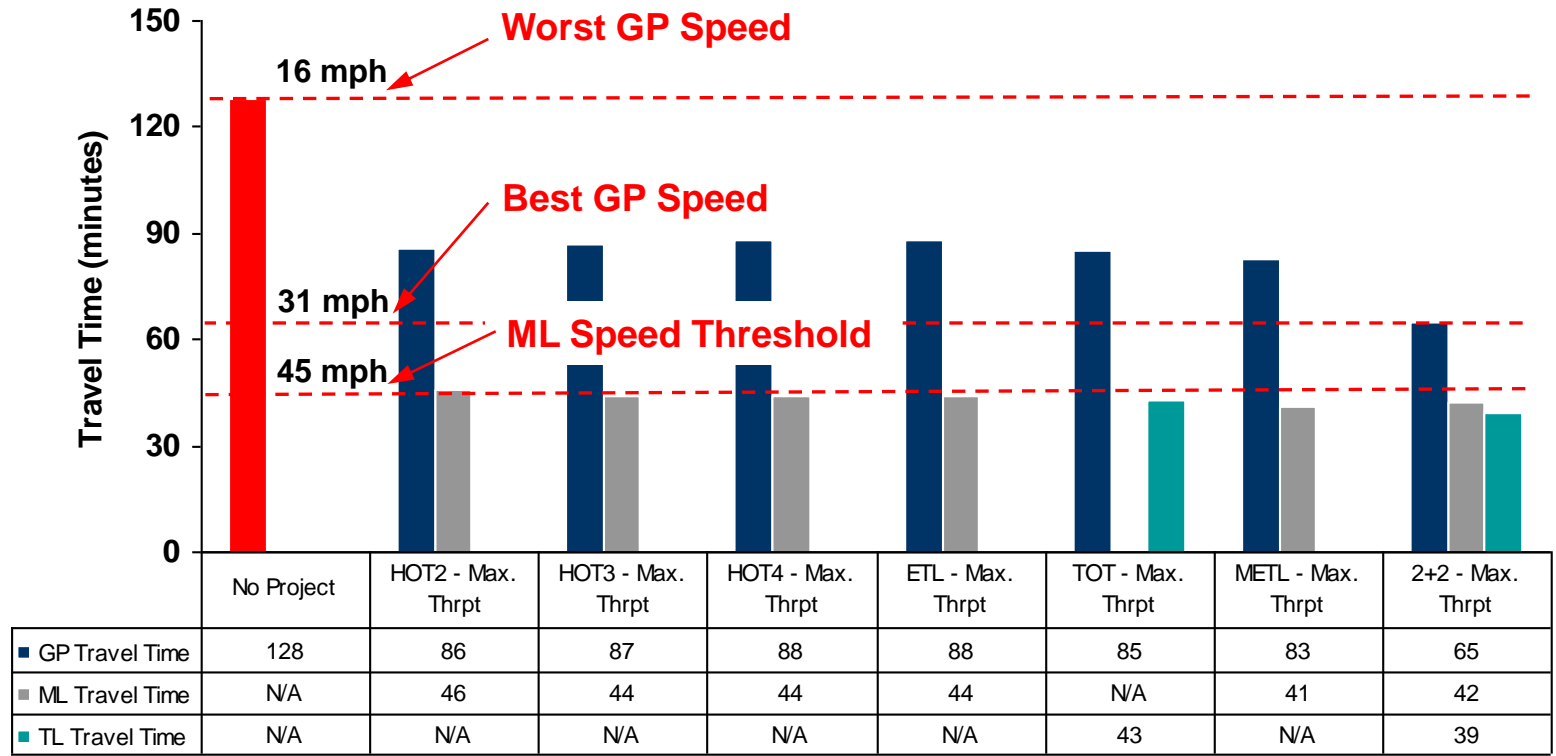
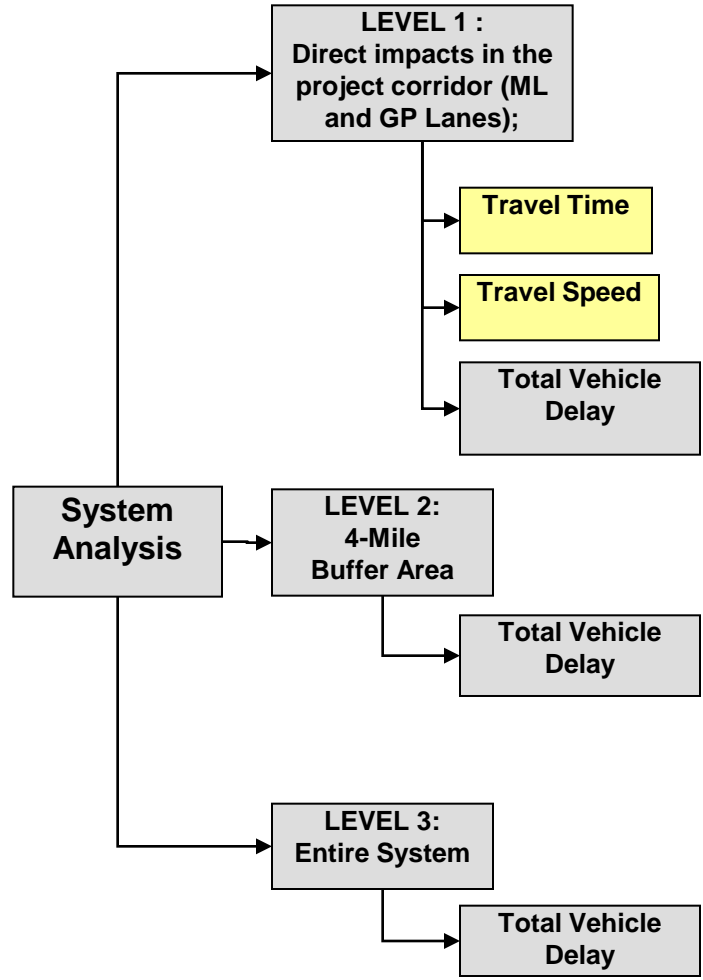






# I-75 South Corridor

## – Transportation User Benefits (2030 Max Throughput)



### Investment Policy

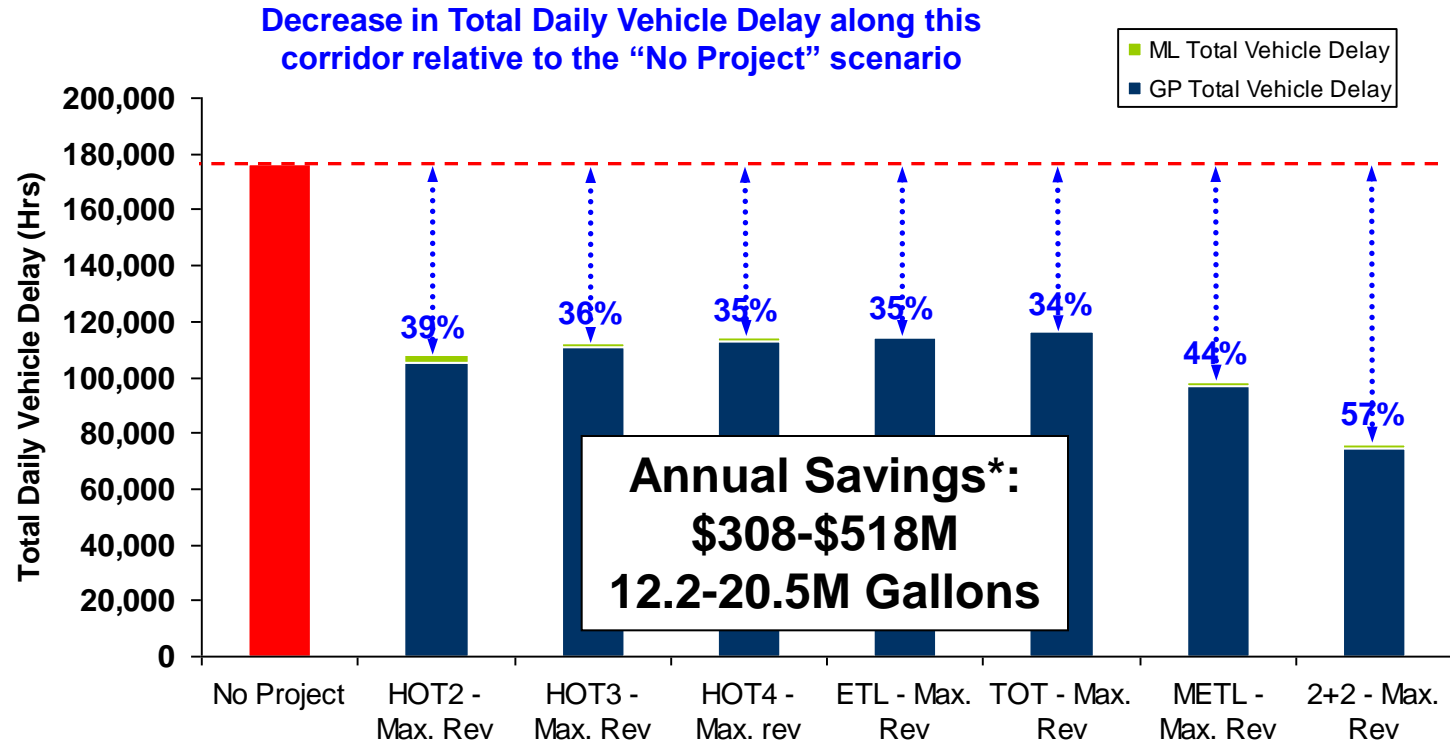
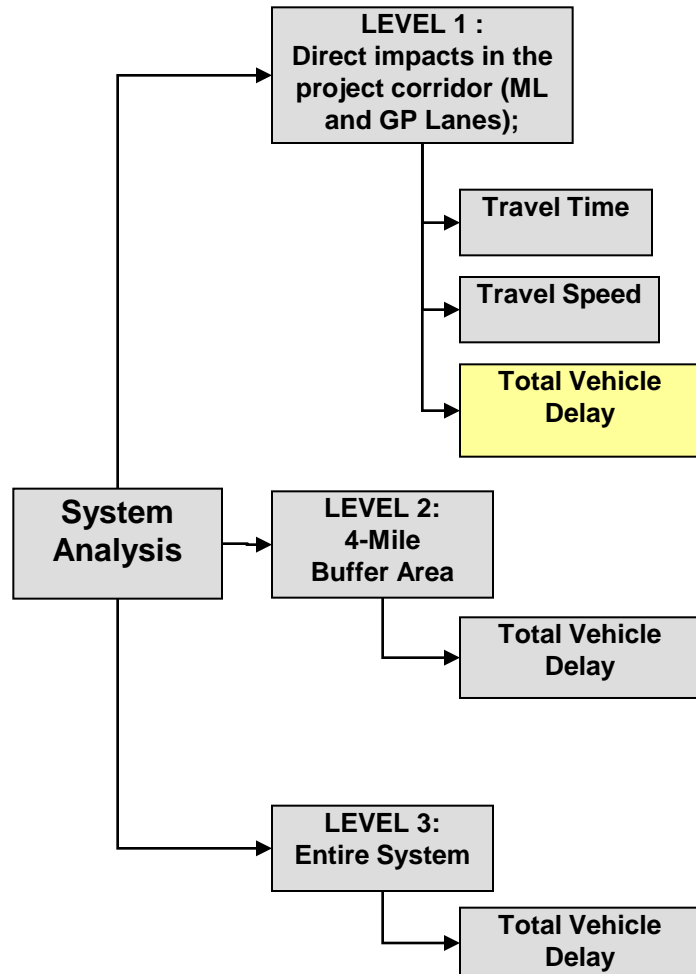
- Distance ≈ 34 Miles
- GP Travel Speed: 16 - 31 mph
- ML Travel Speed: 45 - 50 mph
- TL Travel Speed: 47 - 52 mph





# I-75 South Corridor

## – Transportation User Benefits (2030 Max Revenue)



\*Potential range of savings realized in this corridor, in year 2030, if ML are implemented. Numbers derived using Texas Transportation Institute assumptions of \$17.20/hr and 0.68 gallons of fuel/hr. Low end of range associated with TOT Maximum Revenue policy and high end of range associated with 2+2 Maximum Revenue policy.

**Investment Policy**

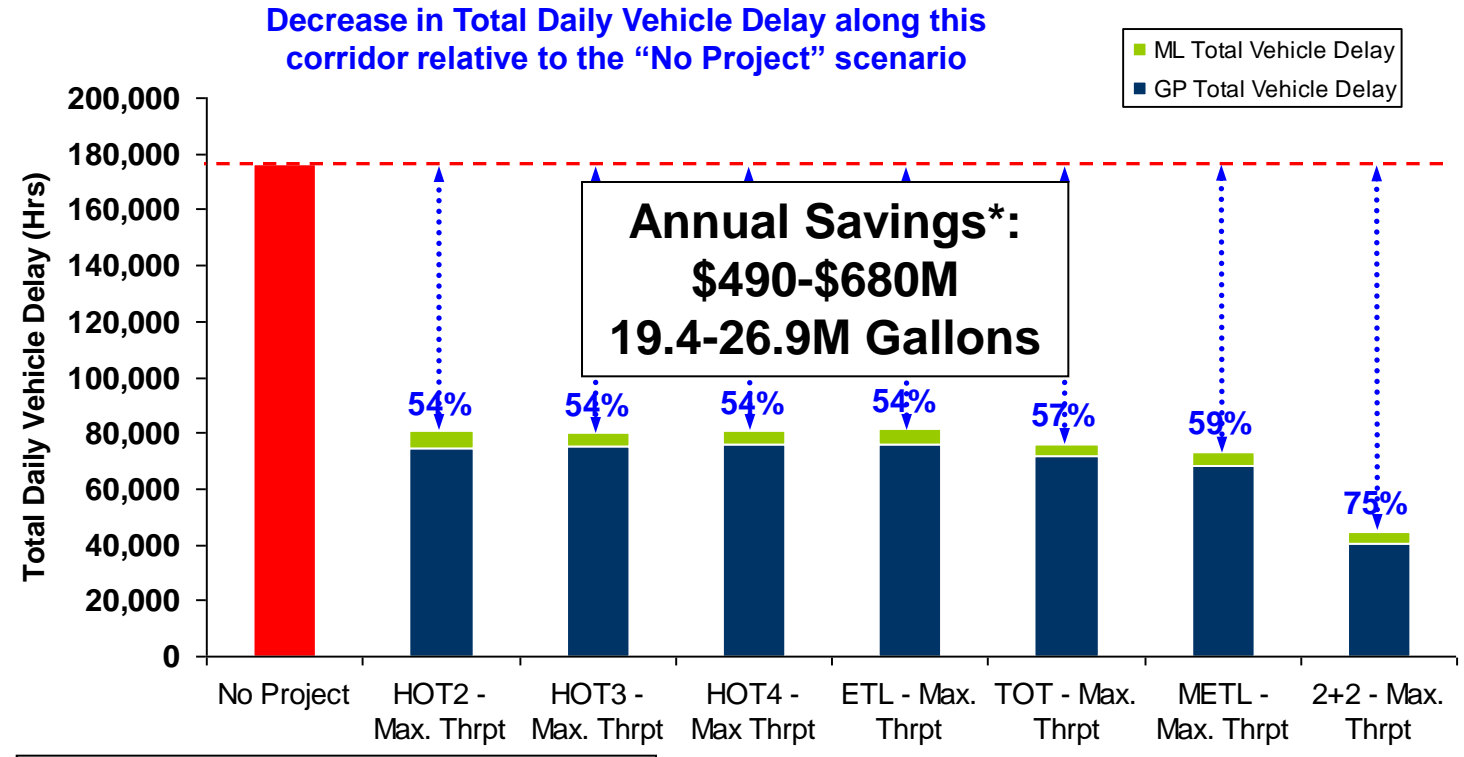
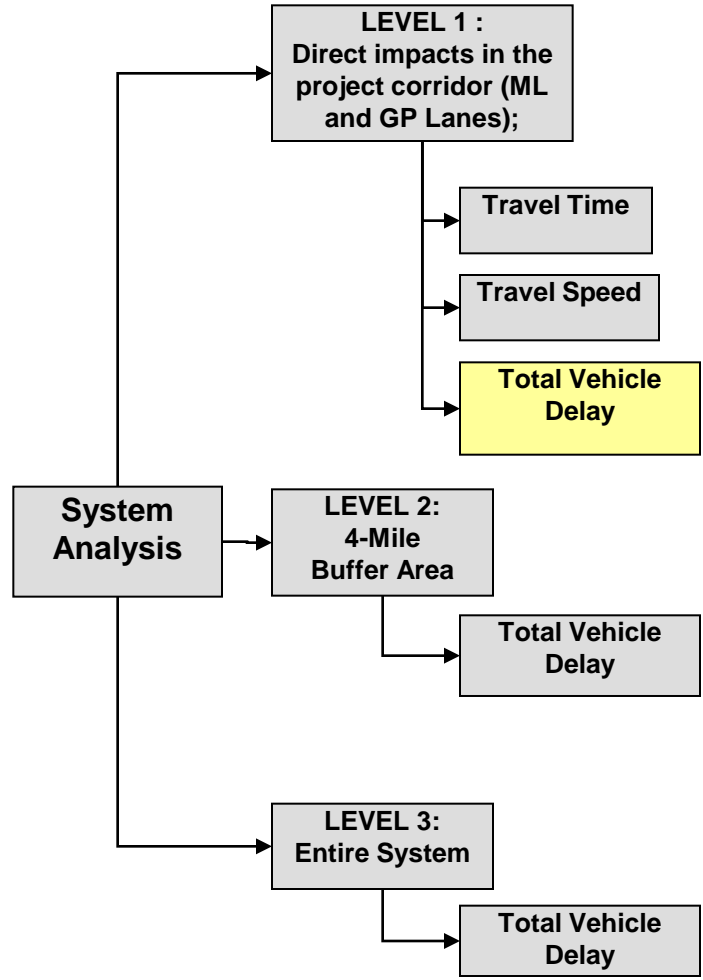
**Distance ≈ 34 Miles**





# I-75 South Corridor

## – Transportation User Benefits (2030 Max Throughput)



\*Potential range of savings realized in this corridor, in year 2030, if ML are implemented. Numbers derived using Texas Transportation Institute assumptions of \$17.20/hr and 0.68 gallons of fuel/hr. Low end of range associated with ETL Maximum Throughput policy and high end of range associated with 2+2 Maximum Throughput policy.

**Investment Policy**

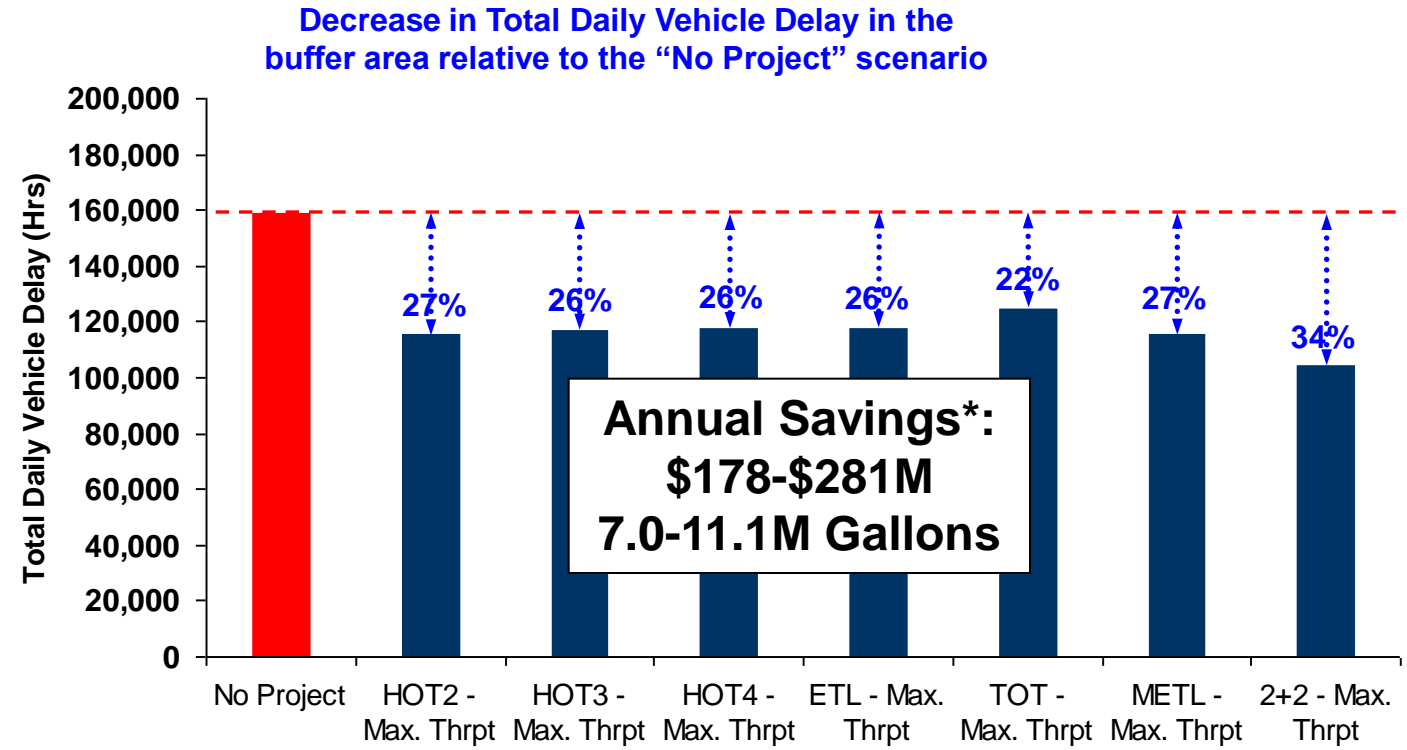
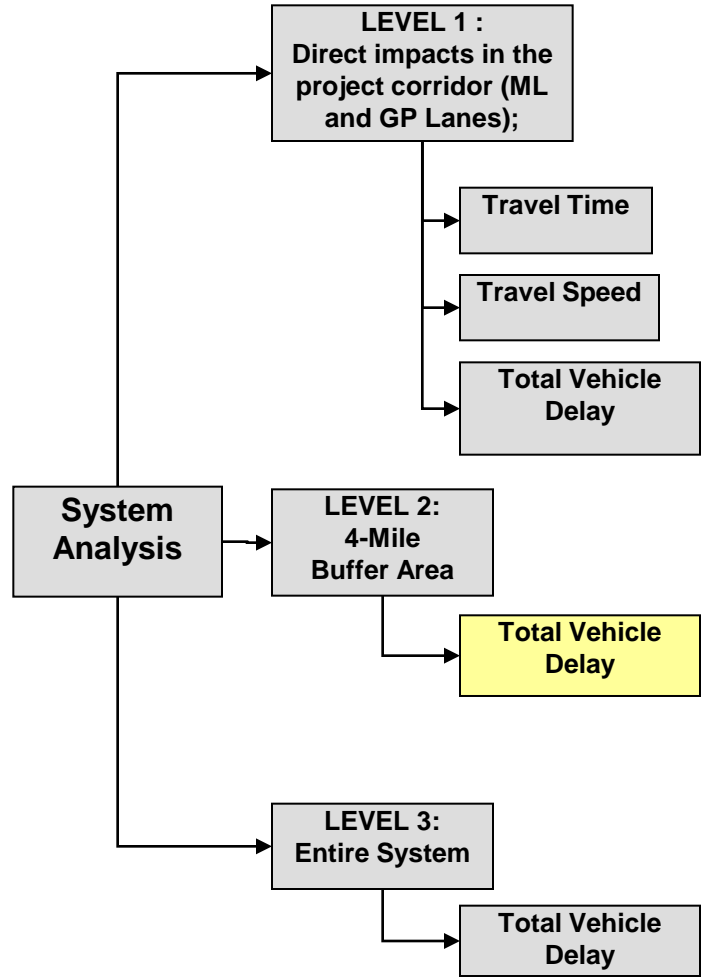
**Distance ≈ 34 Miles**





# I-75 South Corridor

## – Transportation User Benefits (2030 Max Throughput)



**Annual Savings\*:**  
**\$178-\$281M**  
**7.0-11.1M Gallons**

\*Potential range of savings realized in this area, in year 2030, if ML are implemented. Numbers derived using Texas Transportation Institute assumptions of \$17.20/hr and 0.68 gallons of fuel/hr. Low end of range associated with TOT Maximum Throughput policy and high end of range associated with 2+2 Maximum Throughput policy.

Investment Policy

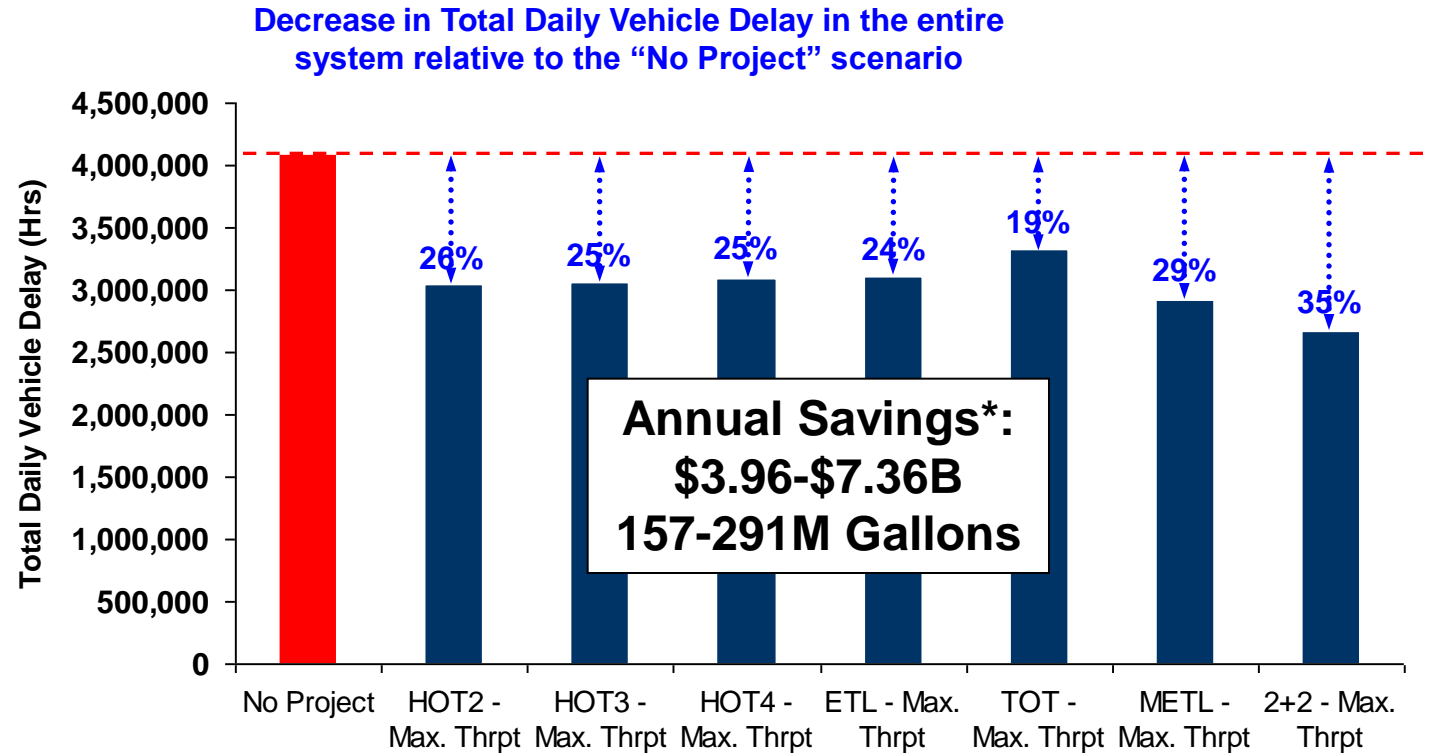
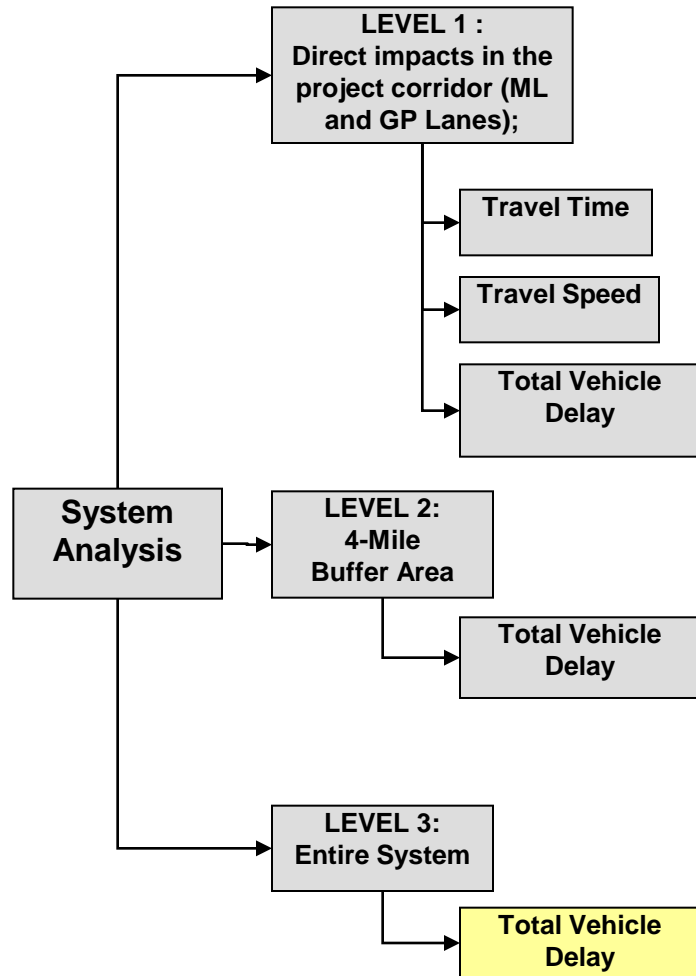
Distance ≈ 34 Miles





# Entire System

## – Transportation User Benefits (2030 Max Throughput)



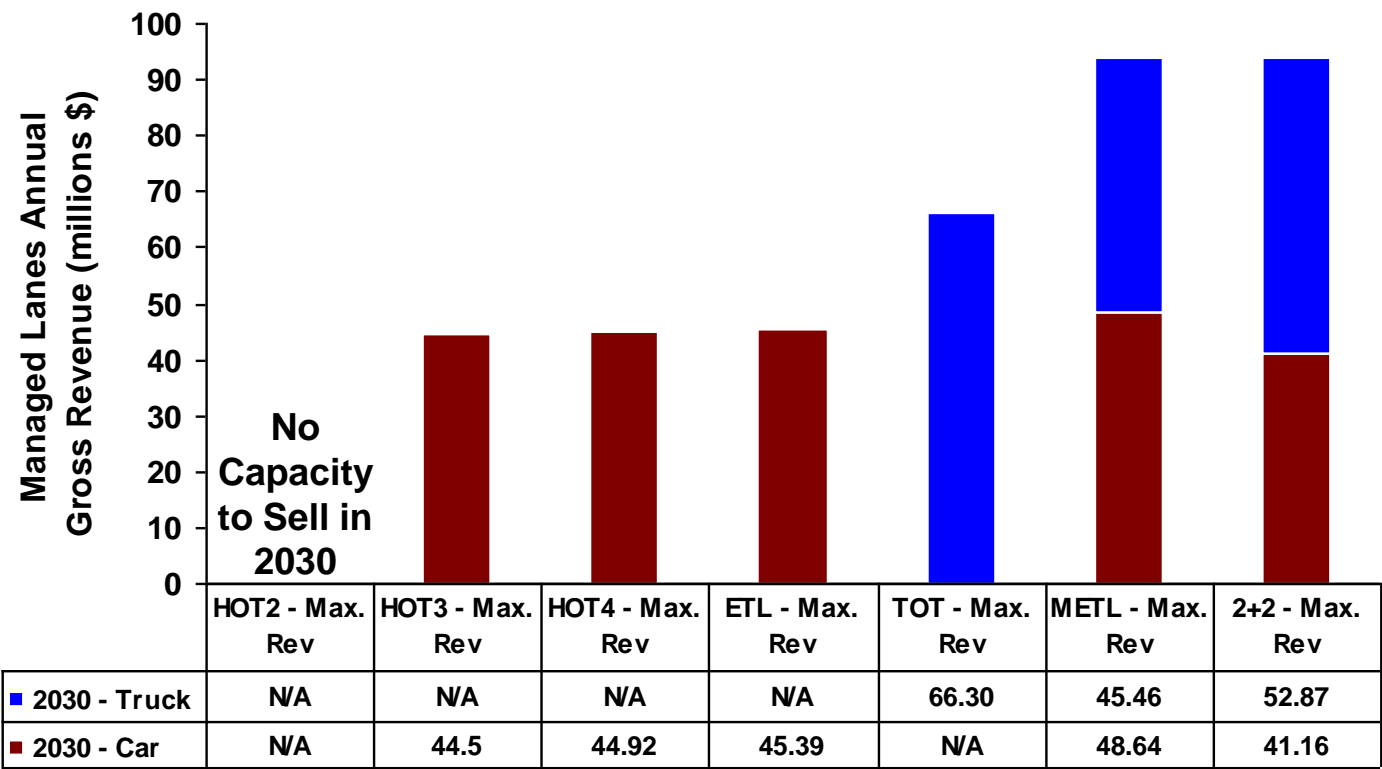
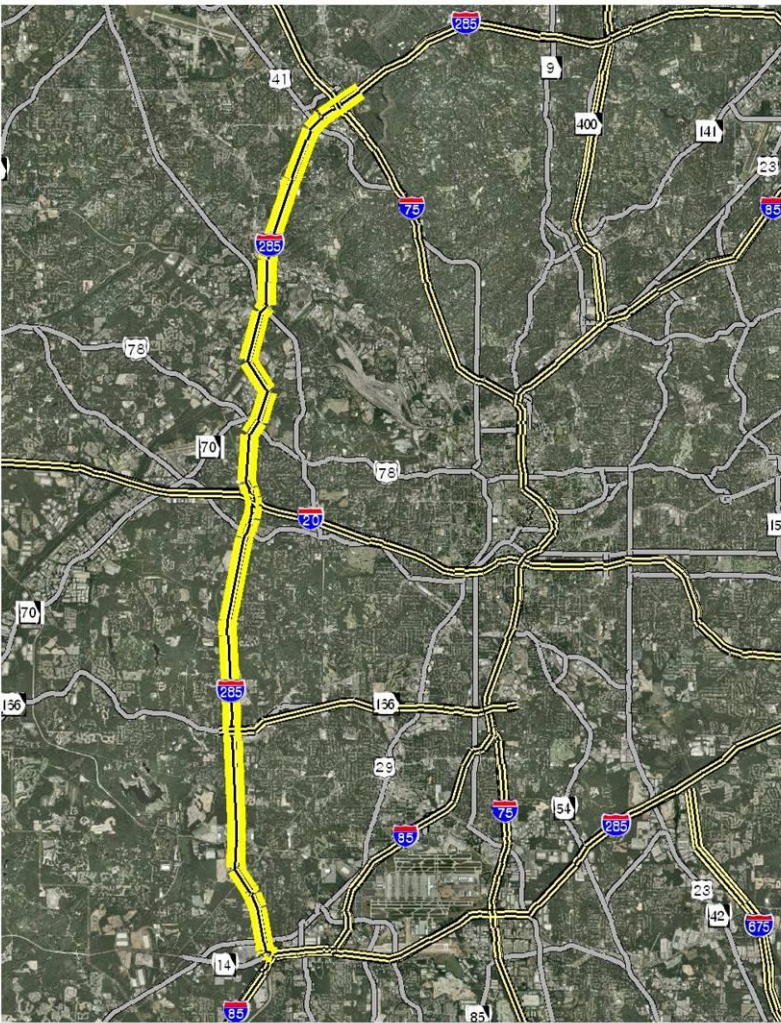
\*Potential range of savings realized in this area, in year 2030, if ML are implemented. Numbers derived using Texas Transportation Institute assumptions of \$17.20/hr and 0.68 gallons of fuel/hr. Low end of range associated with TOT Maximum Throughput policy and high end of range associated with 2+2 Maximum Throughput policy.

Investment Policy





# I-285 West Corridor – Max Revenue Forecast



Investment Policy

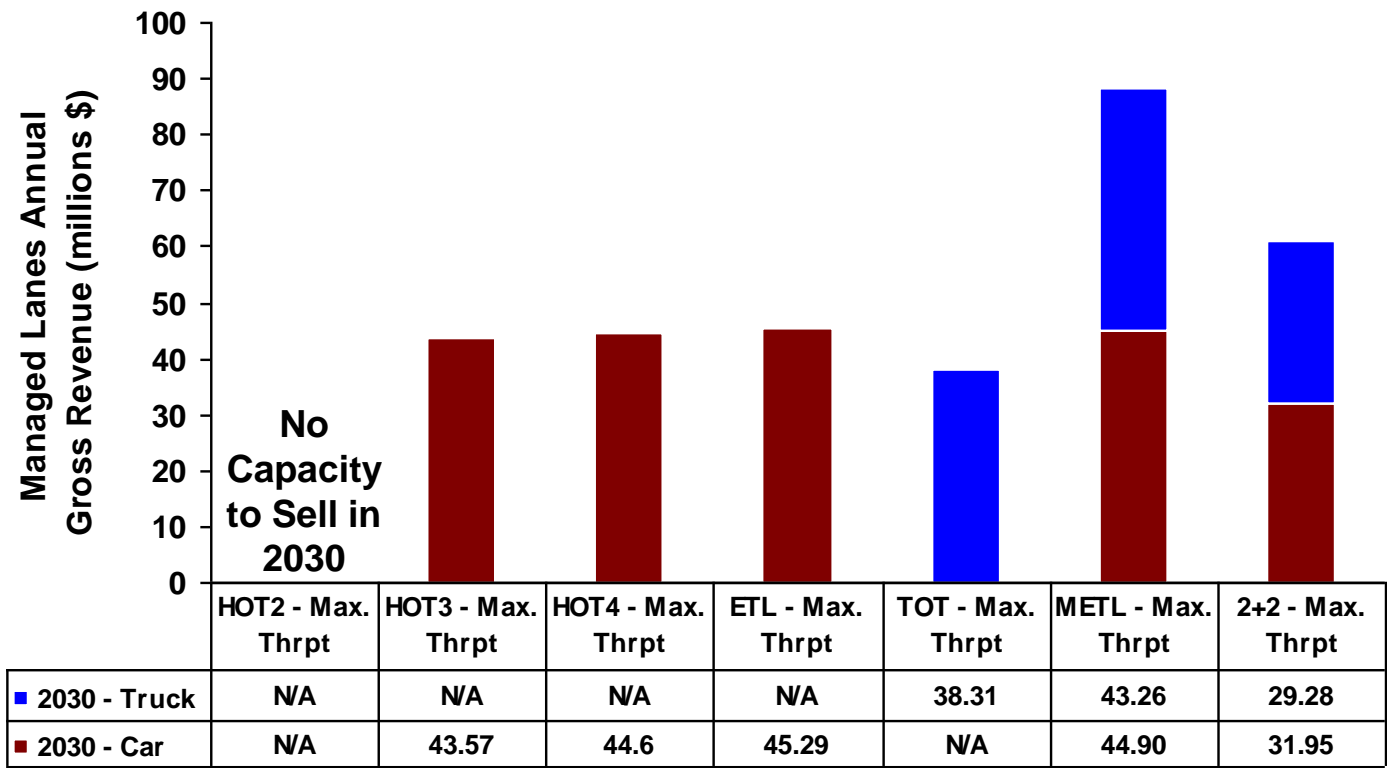
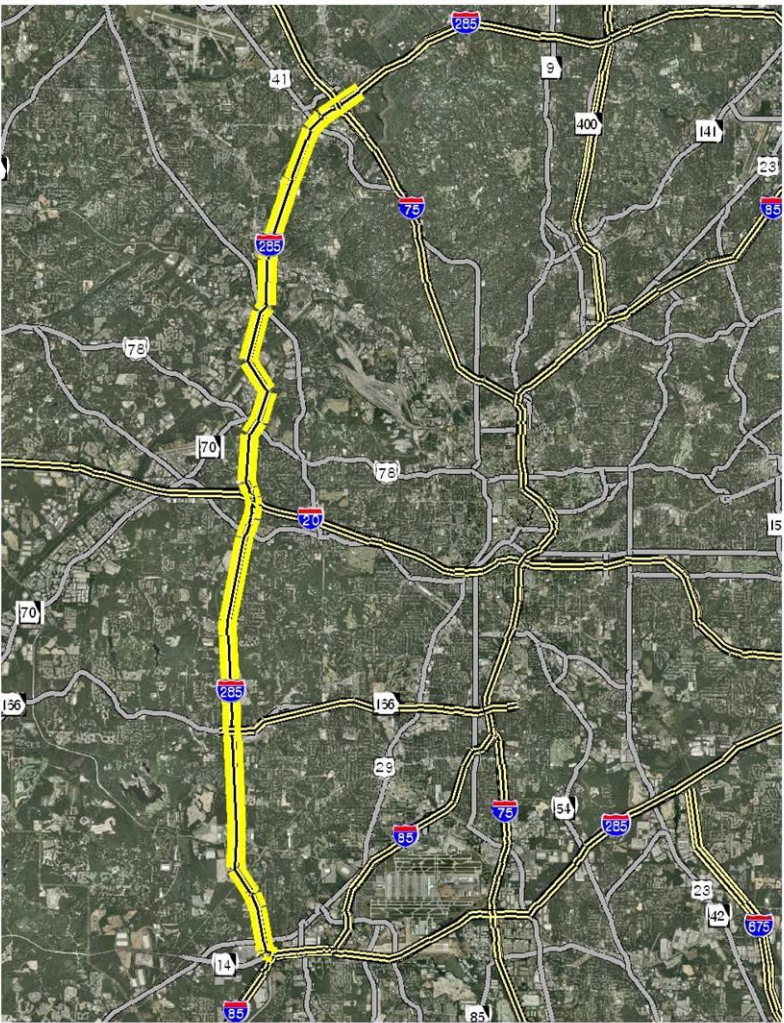
Distance ≈ 21 Miles







# I-285 West Corridor – Max Throughput Forecast



Investment Policy

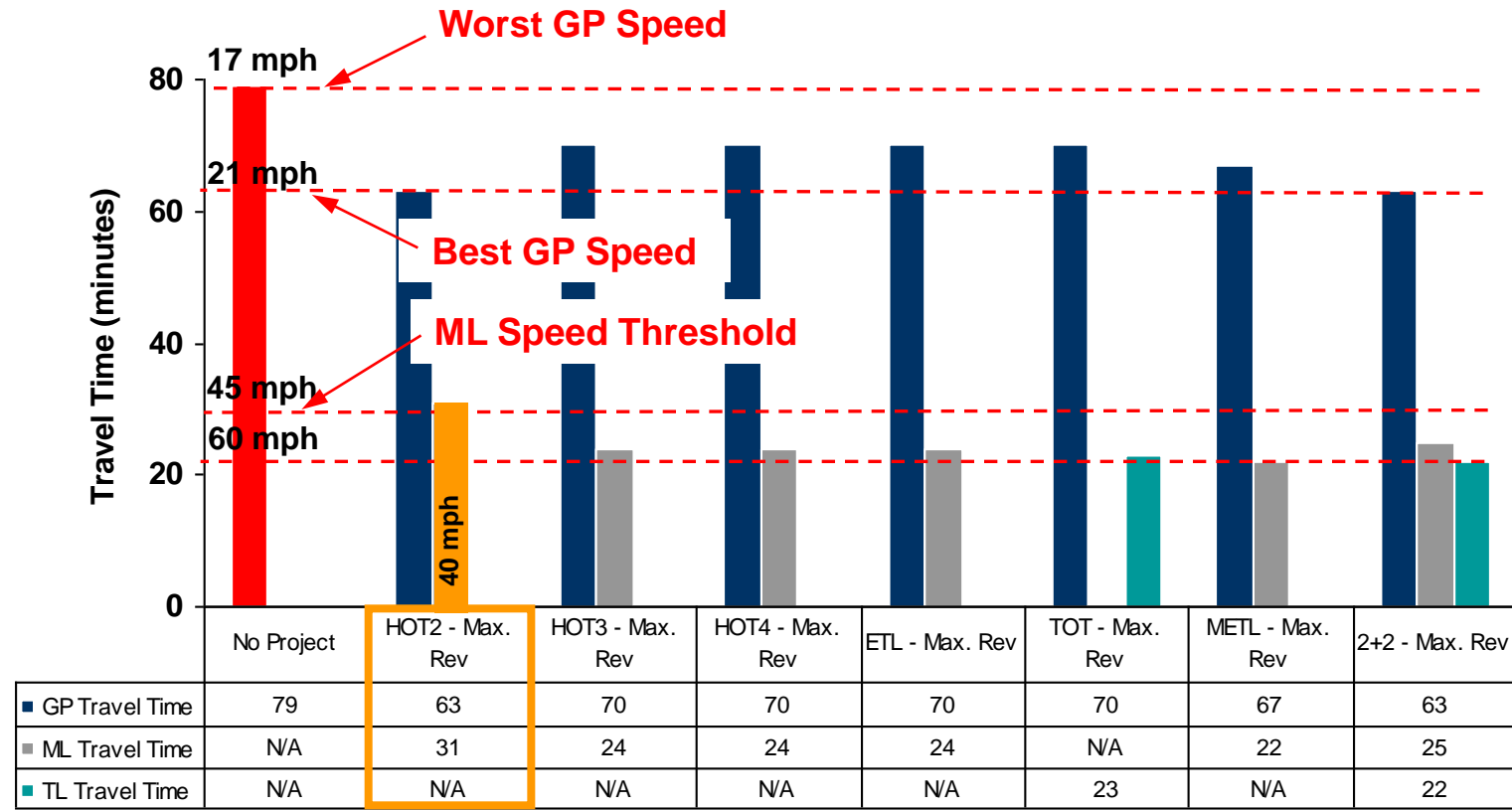
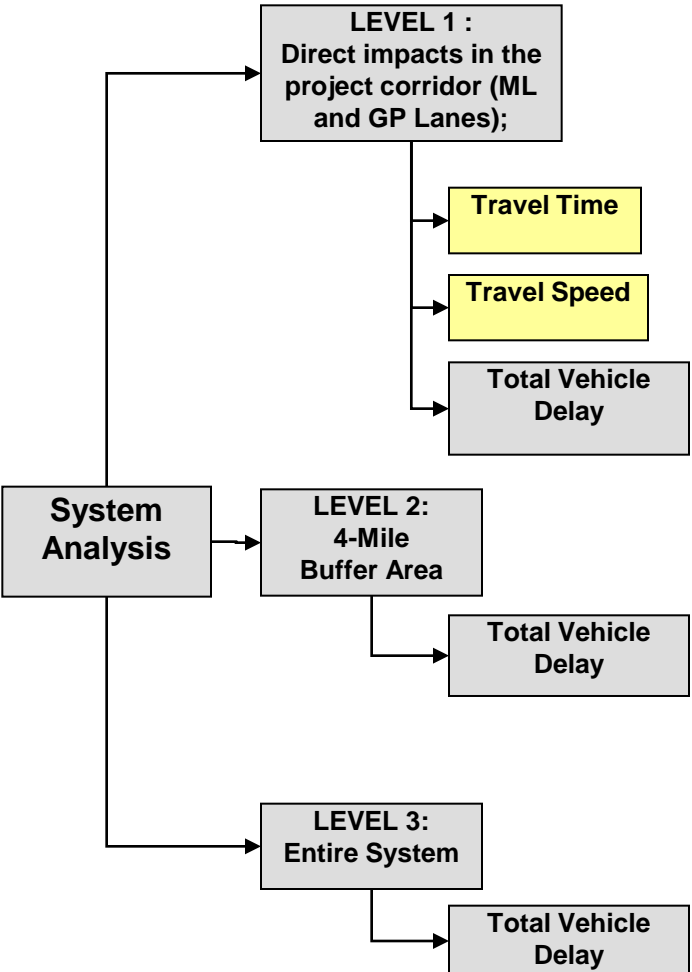
Distance ≈ 21 Miles





# I-285 West Corridor

## – Transportation User Benefits (2030 Max Revenue)



- Investment Policy**
- Distance ≈ 21 Miles
  - GP Travel Speed: 17 - 23 mph
  - ML Travel Speed: 53 - 60 mph
  - TL Travel Speed: 45 - 60 mph

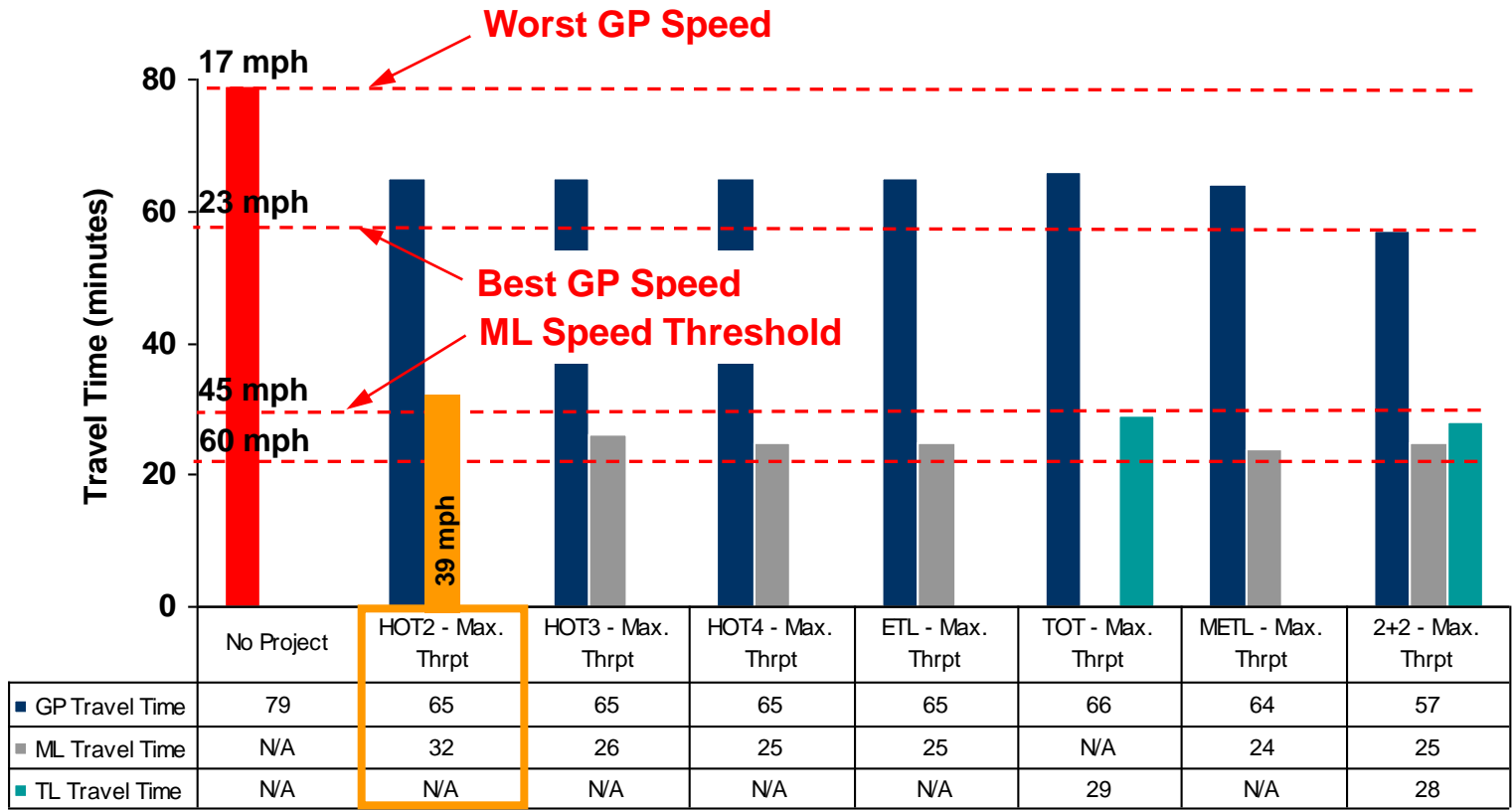
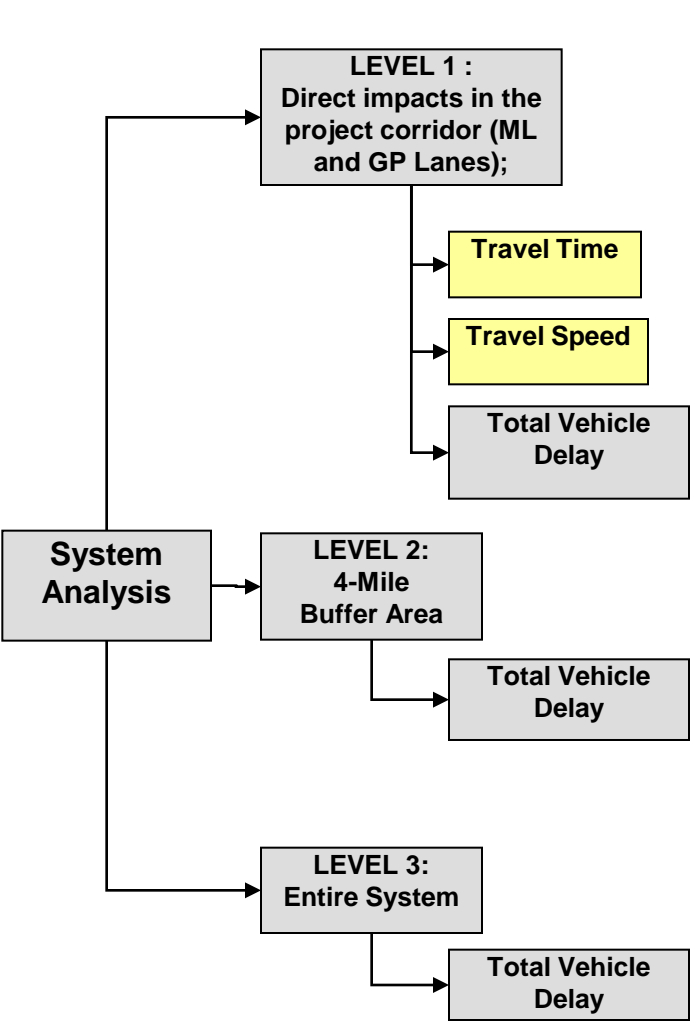






# I-285 West Corridor

## – Transportation User Benefits (2030 Max Throughput)



### Investment Policy

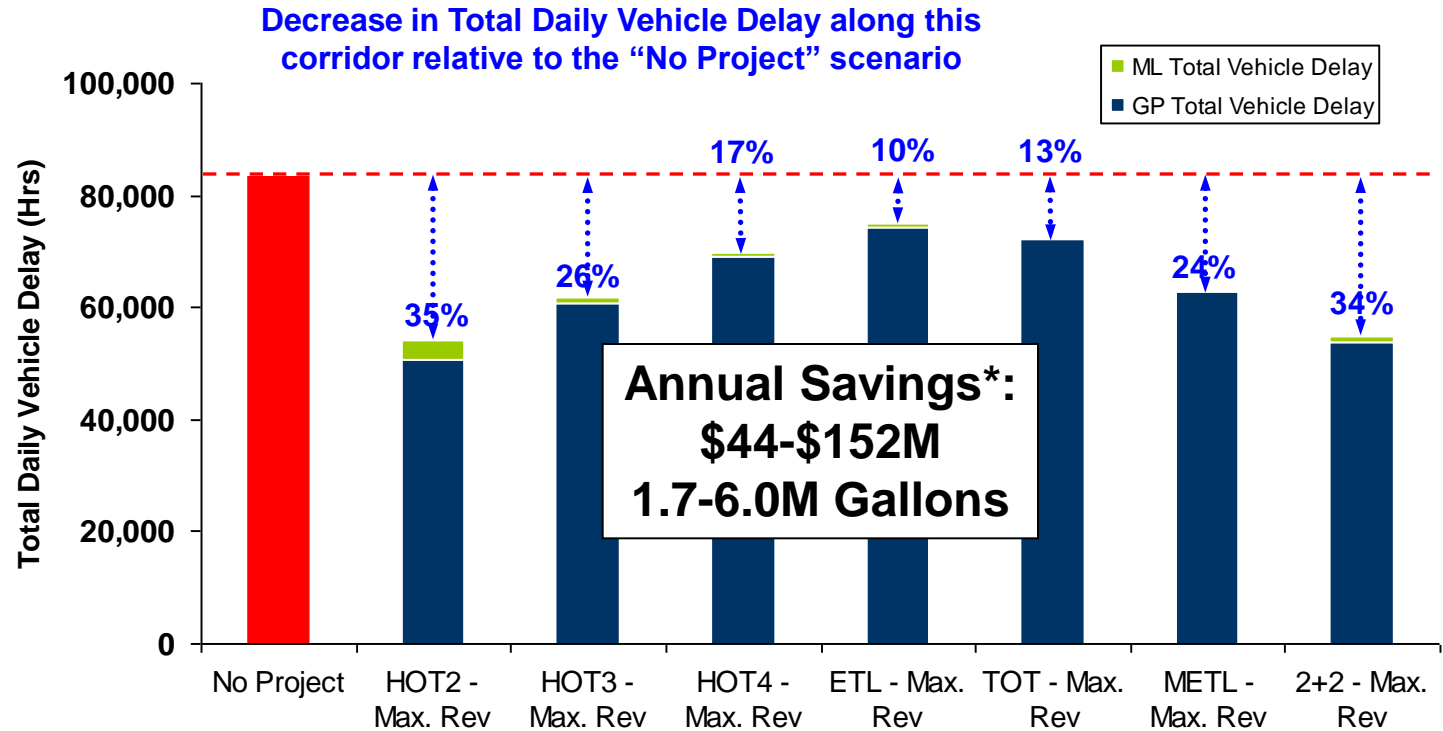
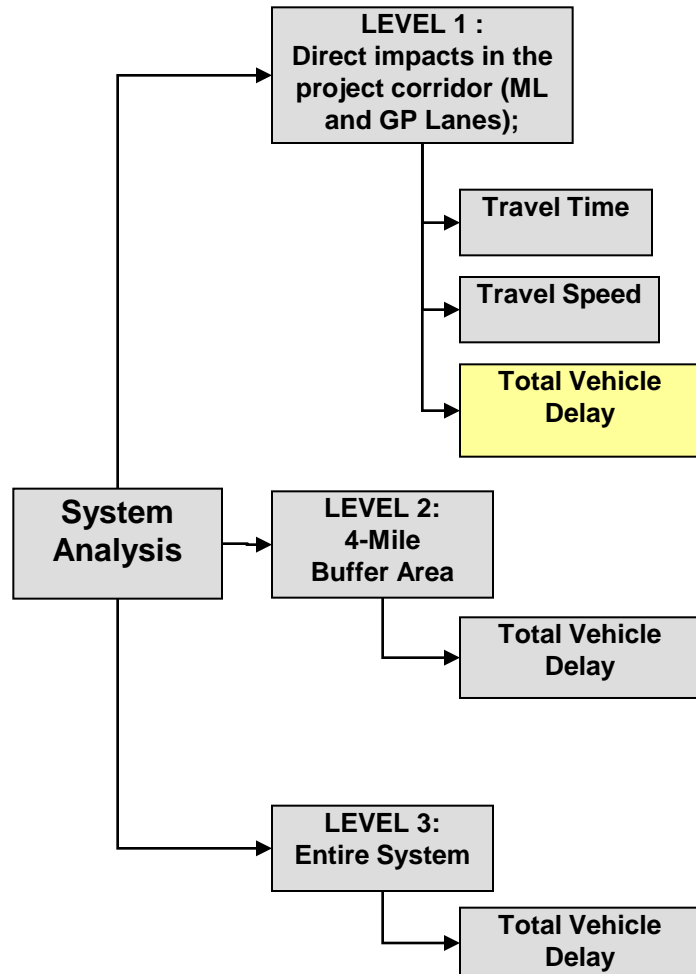
- Distance ≈ 21 Miles
- GP Travel Speed: 17 - 23 mph
- ML Travel Speed: 53 - 60 mph
- TL Travel Speed: 45 - 60 mph





# I-285 West Corridor

## – Transportation User Benefits (2030 Max Revenue)



\*Potential range of savings realized in this corridor, in year 2030, if ML are implemented. Numbers derived using Texas Transportation Institute assumptions of \$17.20/hr and 0.68 gallons of fuel/hr. Low end of range associated with ETL Maximum Revenue policy and high end of range associated with 2+2 Maximum Throughput policy.

**Investment Policy**

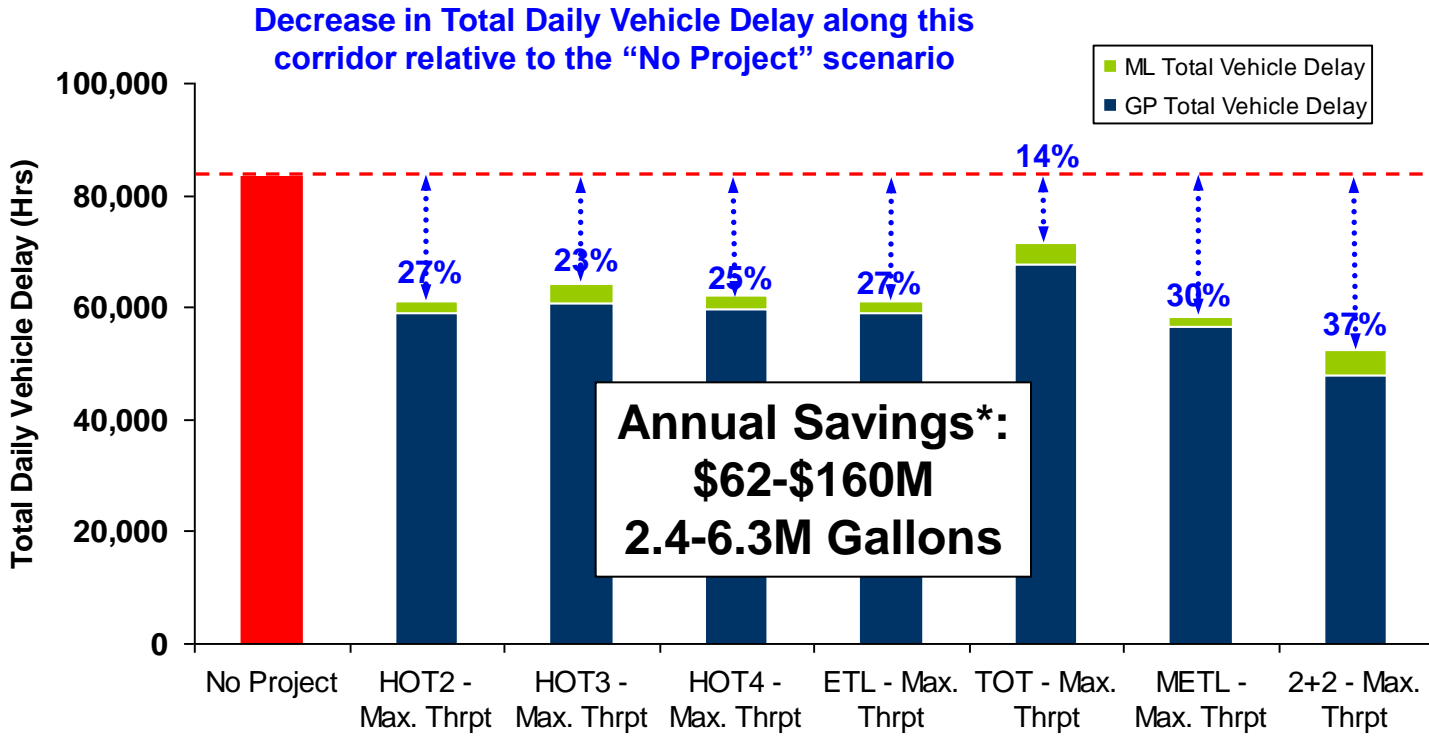
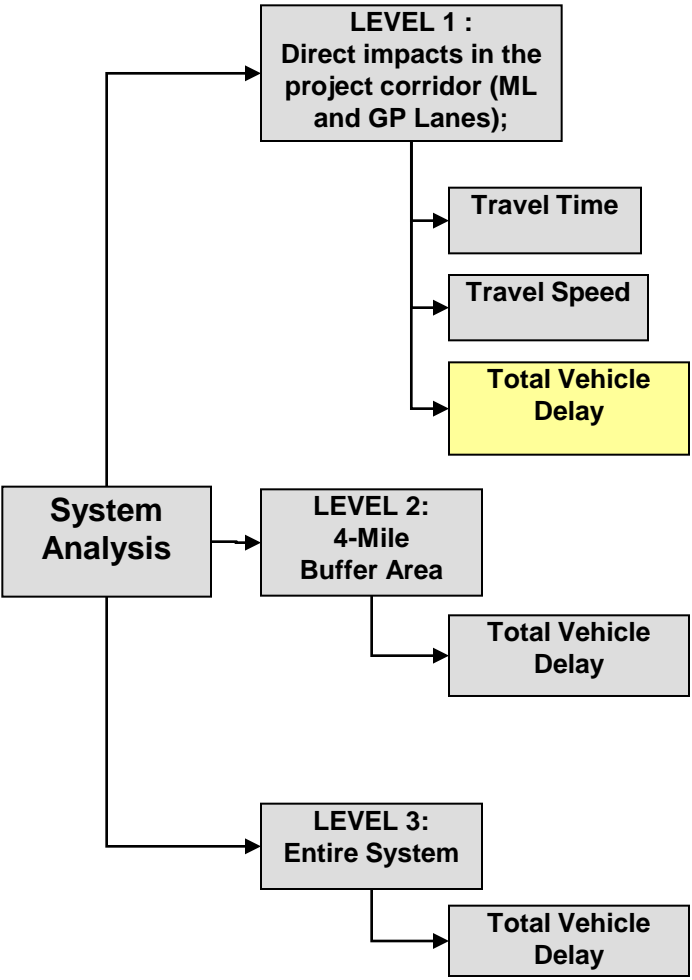
**Distance ≈ 21 Miles**





# I-285 West Corridor

## – Transportation User Benefits (2030 Max Throughput)



**Annual Savings\*:**  
**\$62-\$160M**  
**2.4-6.3M Gallons**

\*Potential range of savings realized in this corridor, in year 2030, if ML are implemented. Numbers derived using Texas Transportation Institute assumptions of \$17.20/hr and 0.68 gallons of fuel/hr. Low end of range associated with TOT Maximum Throughput policy and high end of range associated with 2+2 Maximum Throughput policy.

**Investment Policy**

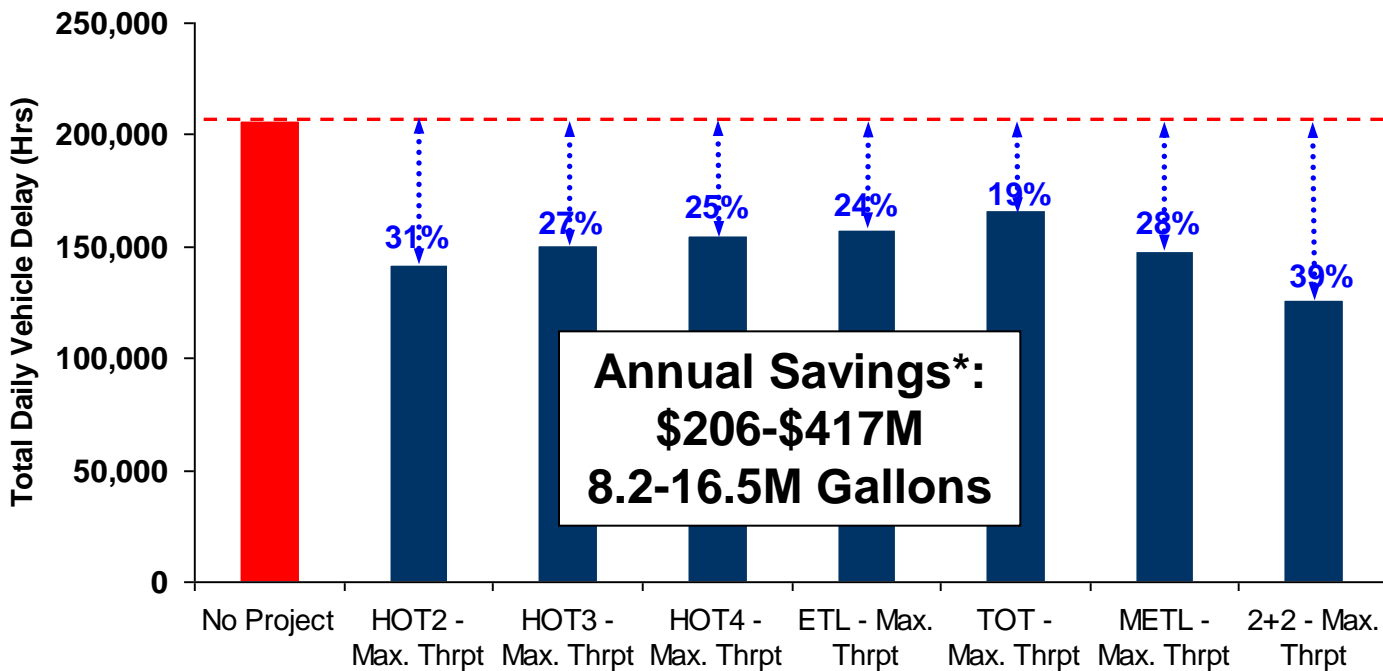
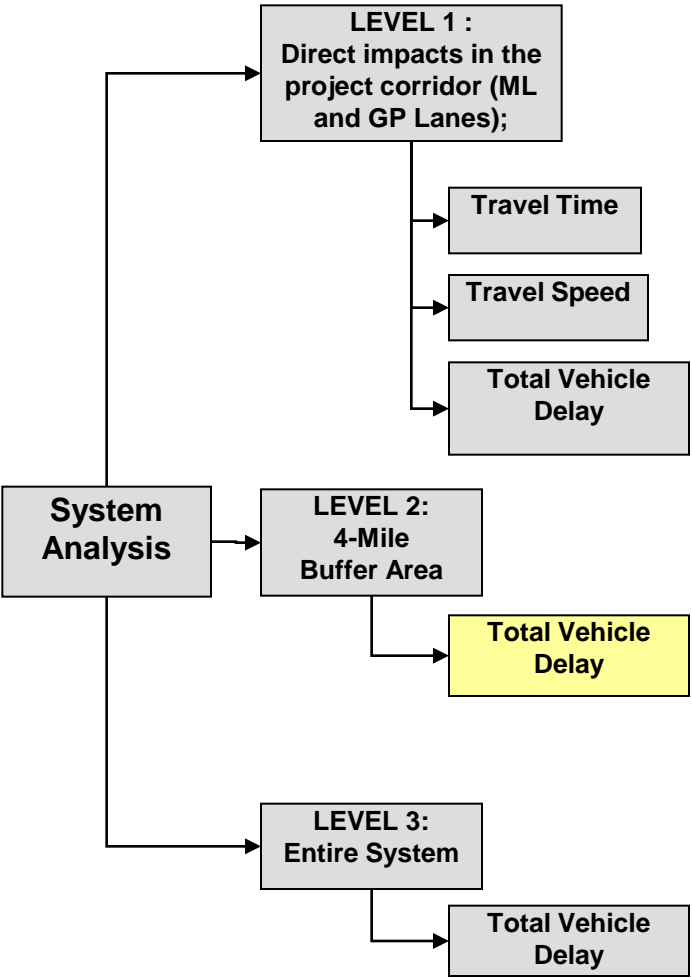
**Distance ≈ 21 Miles**





# I-285 West Corridor

## – Transportation User Benefits (2030 Max Throughput)



**Annual Savings\*:**  
**\$206-\$417M**  
**8.2-16.5M Gallons**

\*Potential range of savings realized in this area, in year 2030, if ML are implemented. Numbers derived using Texas Transportation Institute assumptions of \$17.20/hr and 0.68 gallons of fuel/hr. Low end of range associated with TOT Maximum Throughput policy and high end of range associated with 2+2 Maximum Throughput policy.

**Investment Policy**

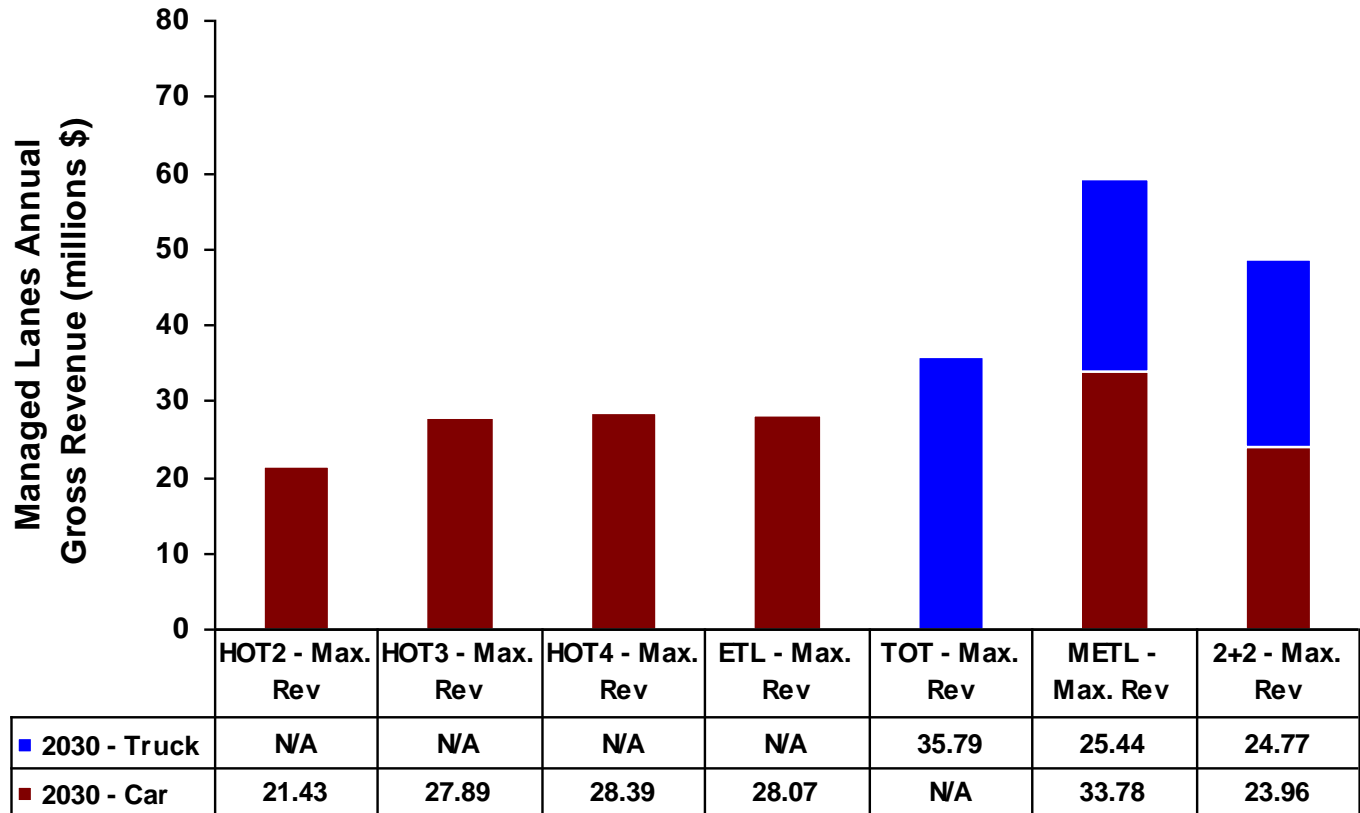
**Distance ≈ 21 Miles**







# I-285 South Corridor – Max Revenue Forecast



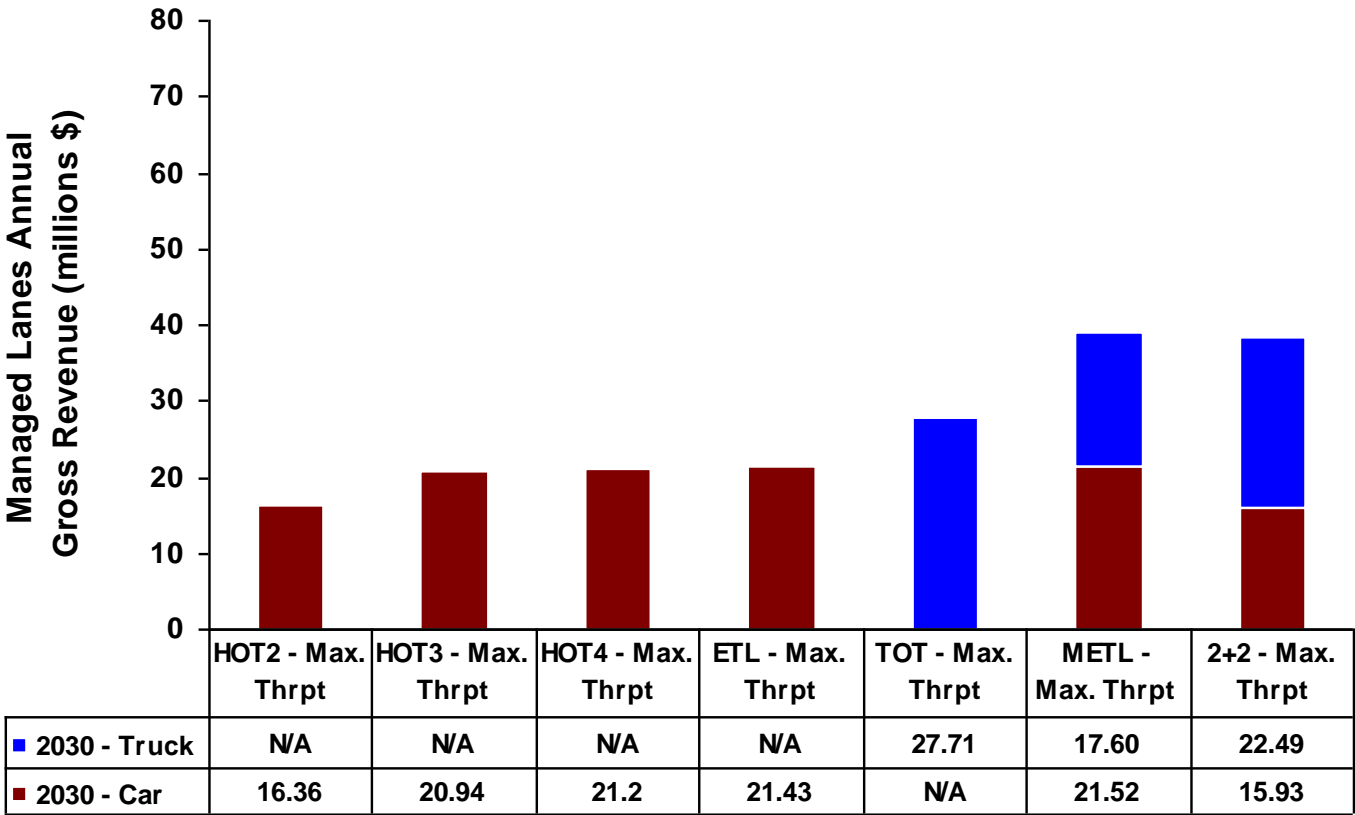
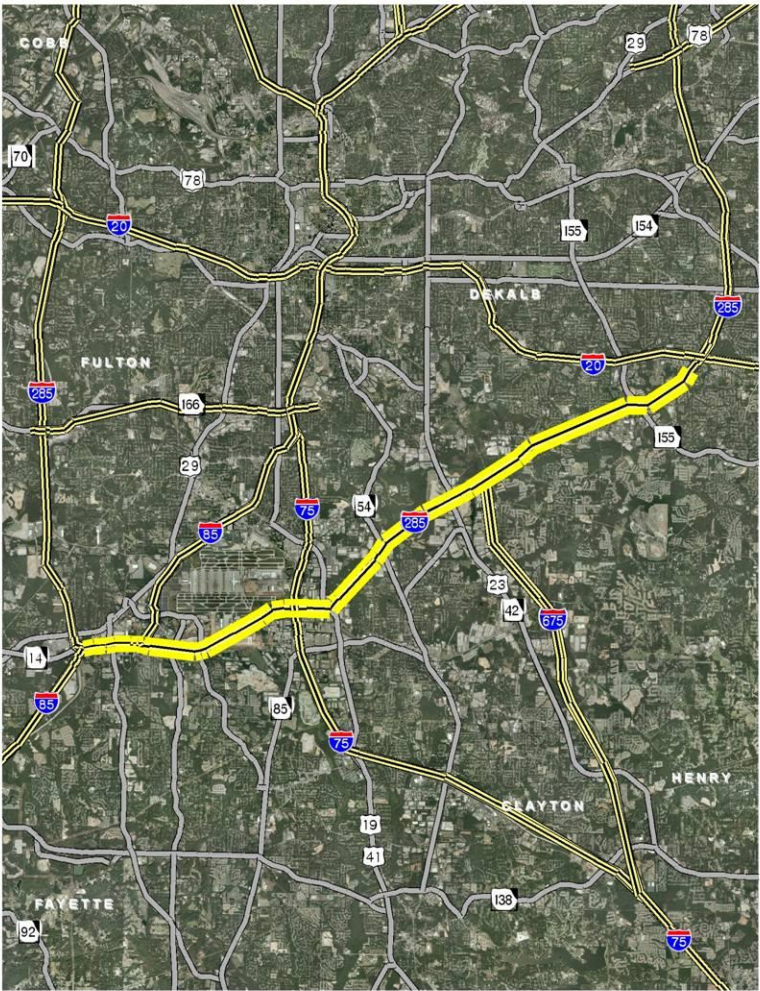
Investment Policy

Distance ≈ 17 Miles





# I-285 South Corridor – Max Throughput Forecast



Investment Policy

Distance ≈ 17 Miles

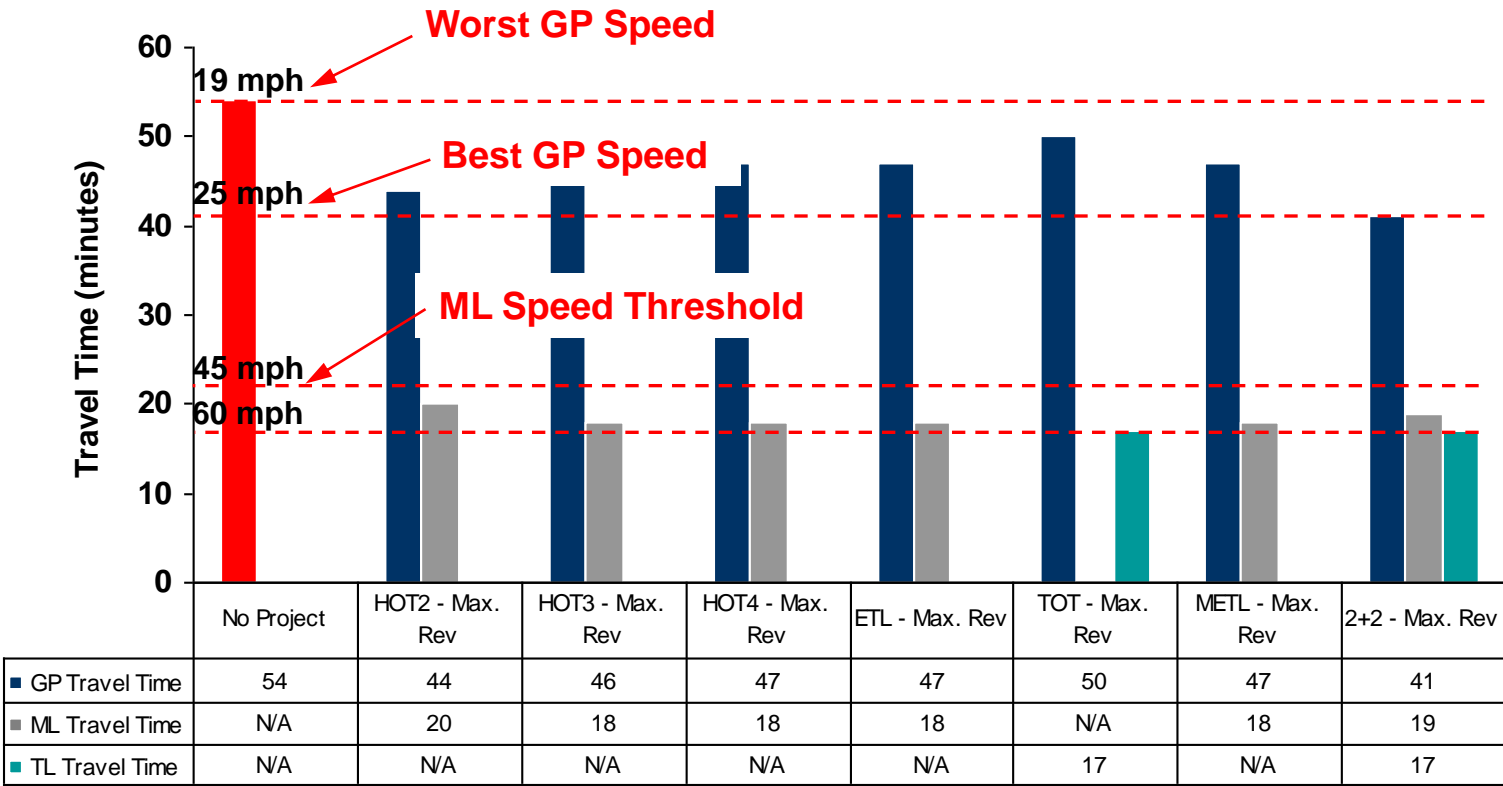
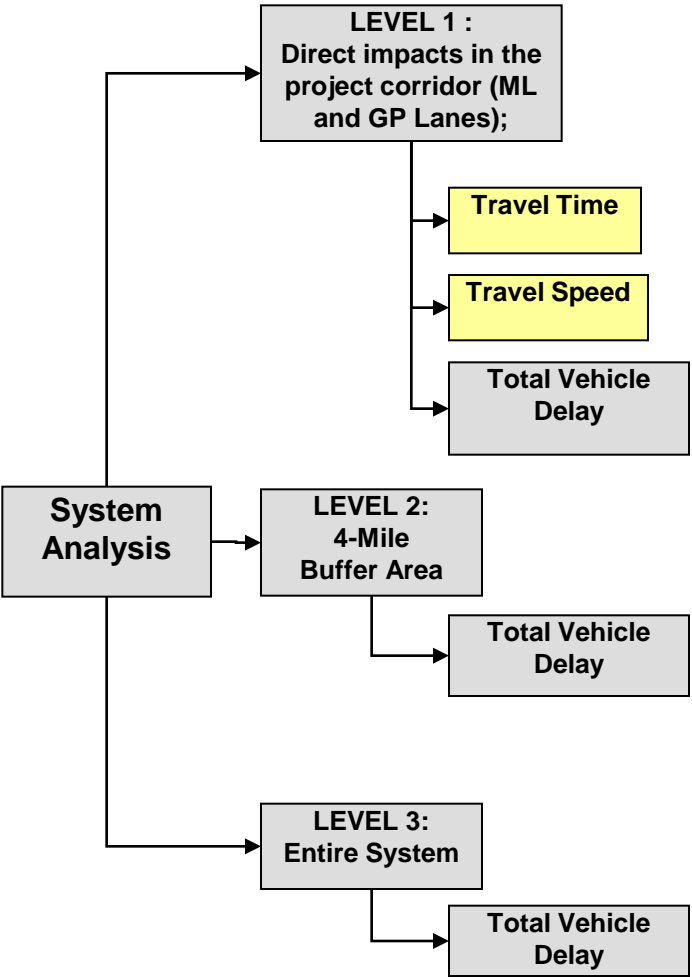






# I-285 South Corridor

## – Transportation User Benefits (2030 Max Revenue)



Investment Policy

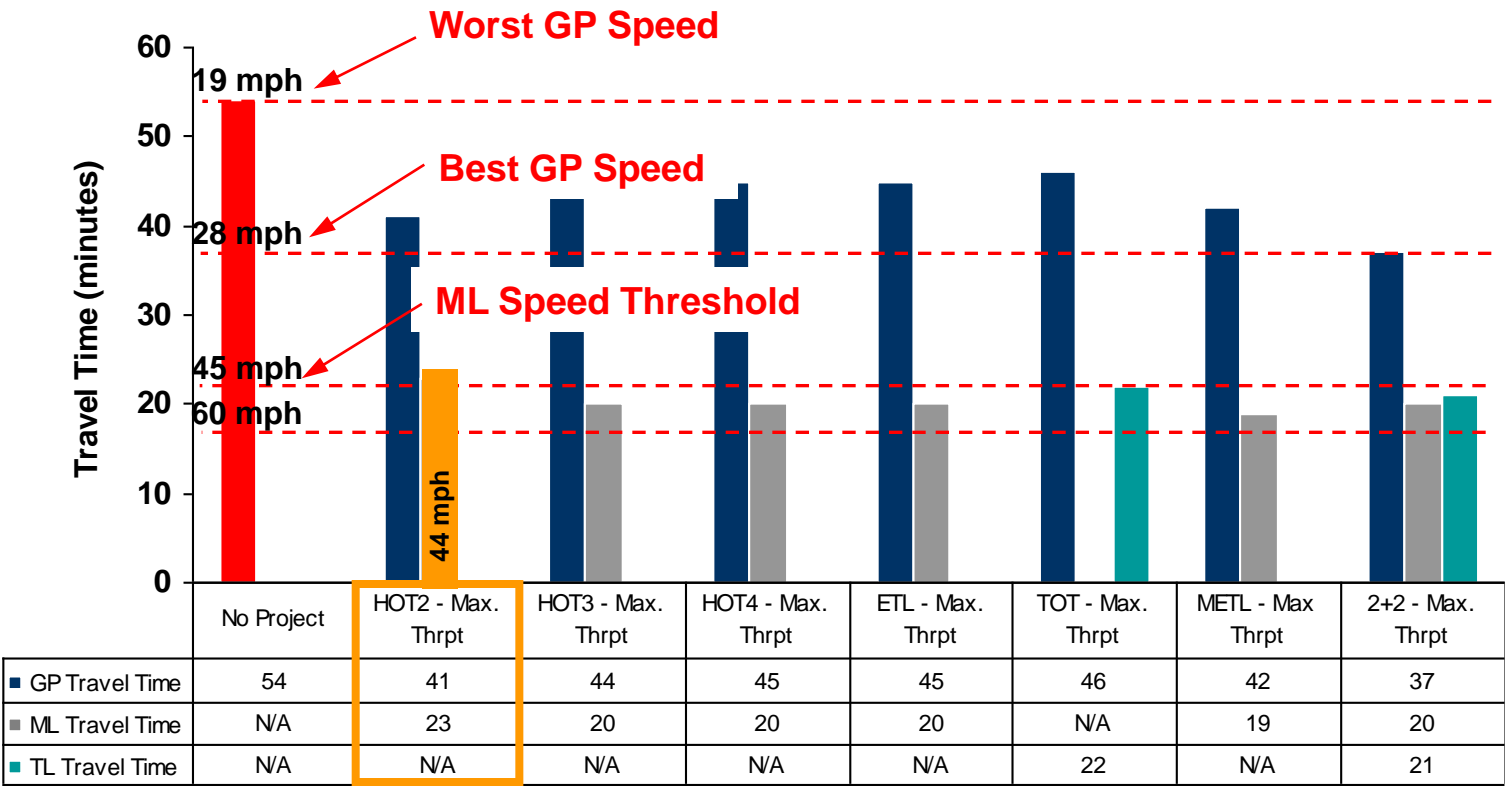
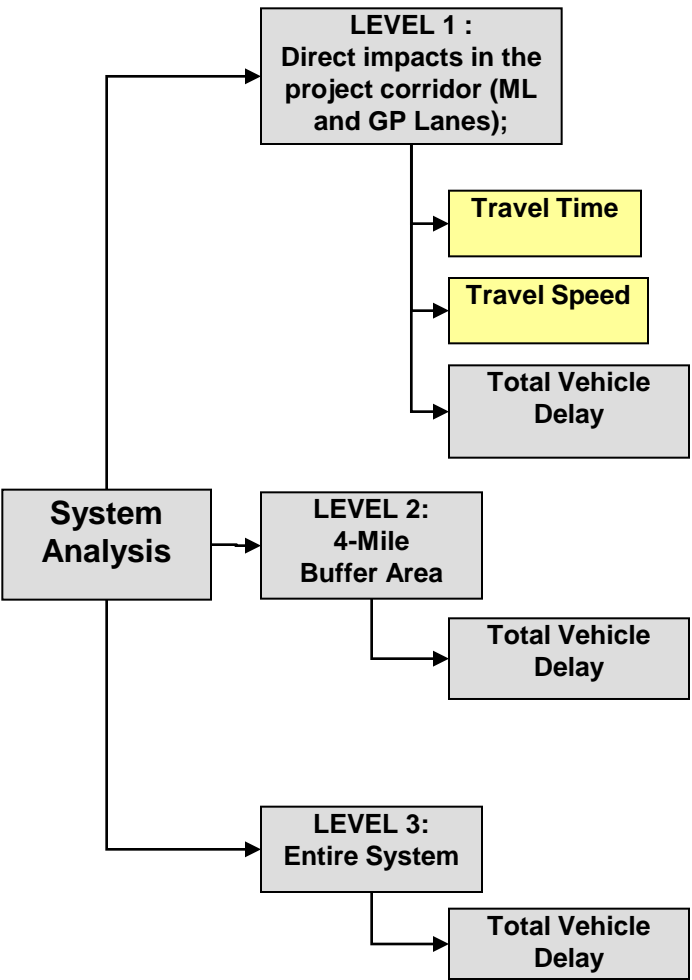
- Distance ≈ 17 Miles
- GP Travel Speed: 19 - 28 mph
- ML Travel Speed: 51 - 57 mph
- TL Travel Speed: 46 - 60 mph





# I-285 South Corridor

## – Transportation User Benefits (2030 Max Throughput)



Investment Policy

- Distance ≈ 17 Miles
- GP Travel Speed: 19 - 28 mph
- ML Travel Speed: 51 - 57 mph
- TL Travel Speed: 46 - 60 mph

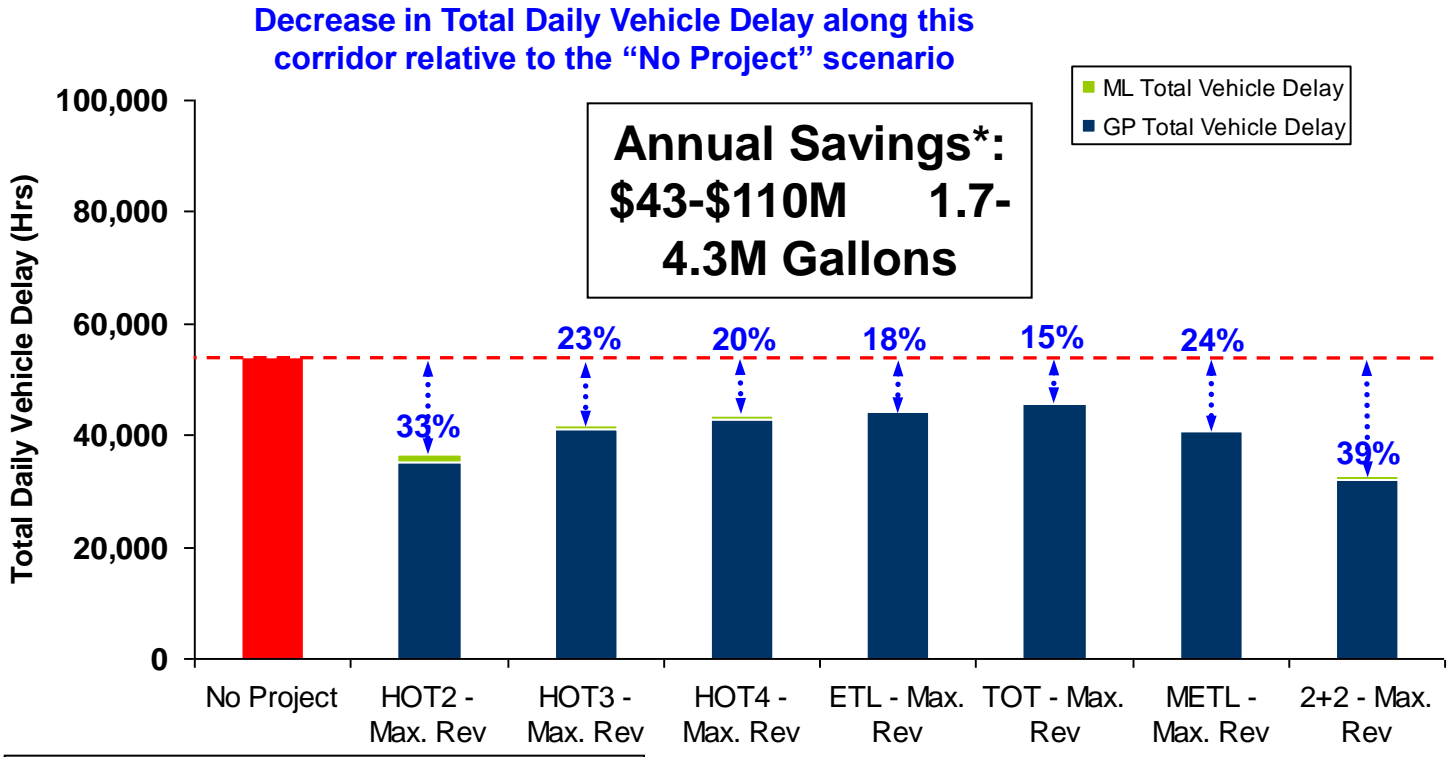
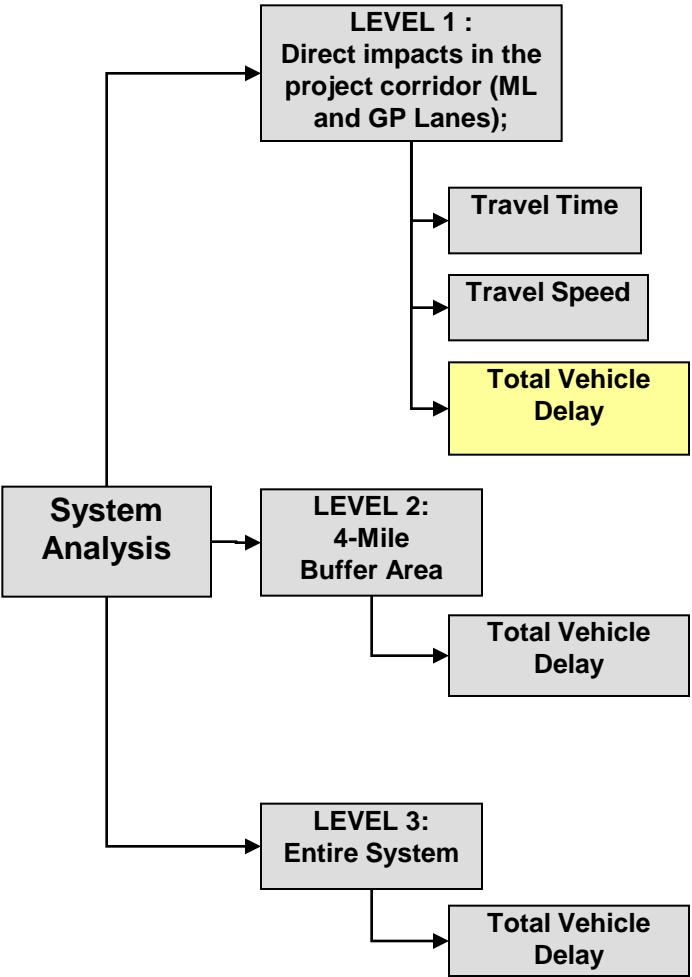






# I-285 South Corridor

## – Transportation User Benefits (2030 Max Revenue)



**Annual Savings\*:**  
**\$43-\$110M**    **1.7-**  
**4.3M Gallons**

\*Potential range of savings realized in this corridor, in year 2030, if ML are implemented. Numbers derived using Texas Transportation Institute assumptions of \$17.20/hr and 0.68 gallons of fuel/hr. Low end of range associated with TOT Maximum Revenue policy and high end of range associated with 2+2 Maximum Revenue policy.

Investment Policy

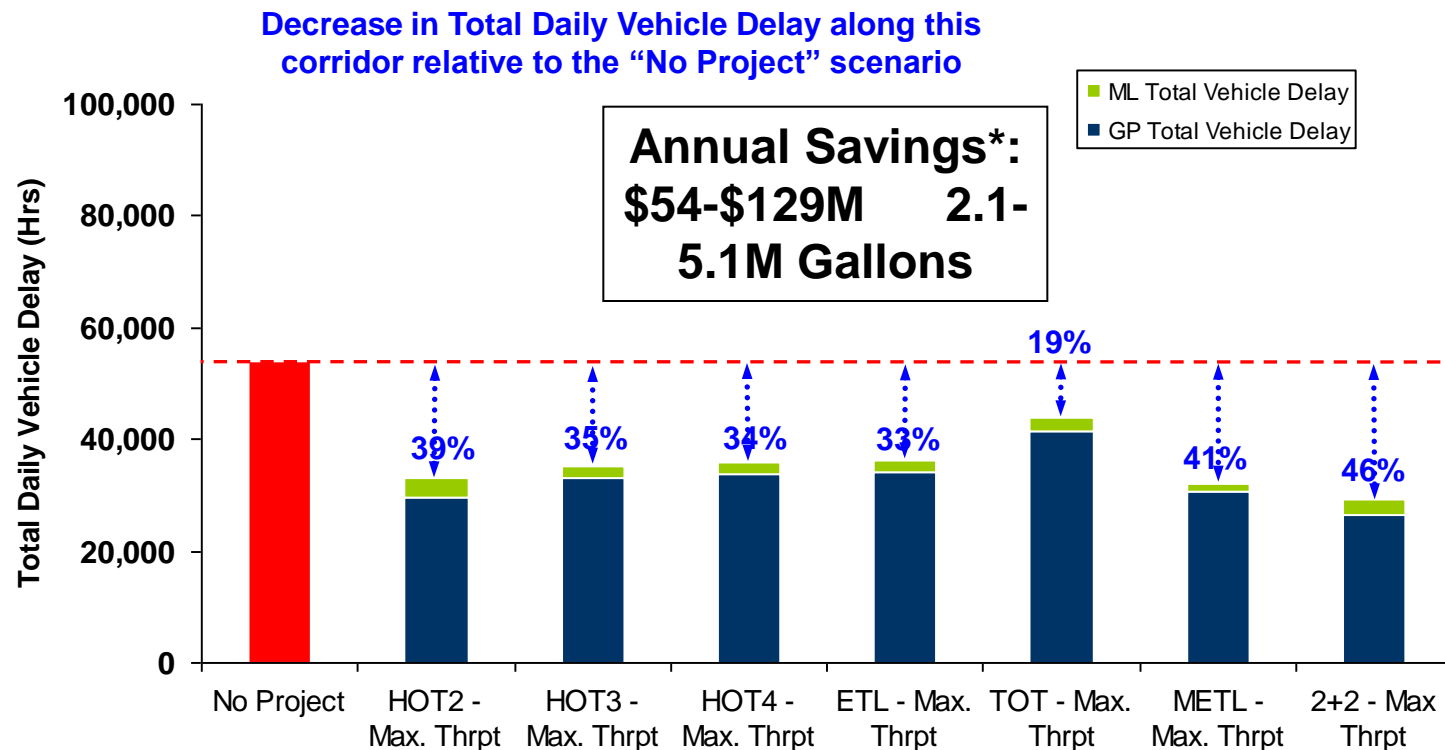
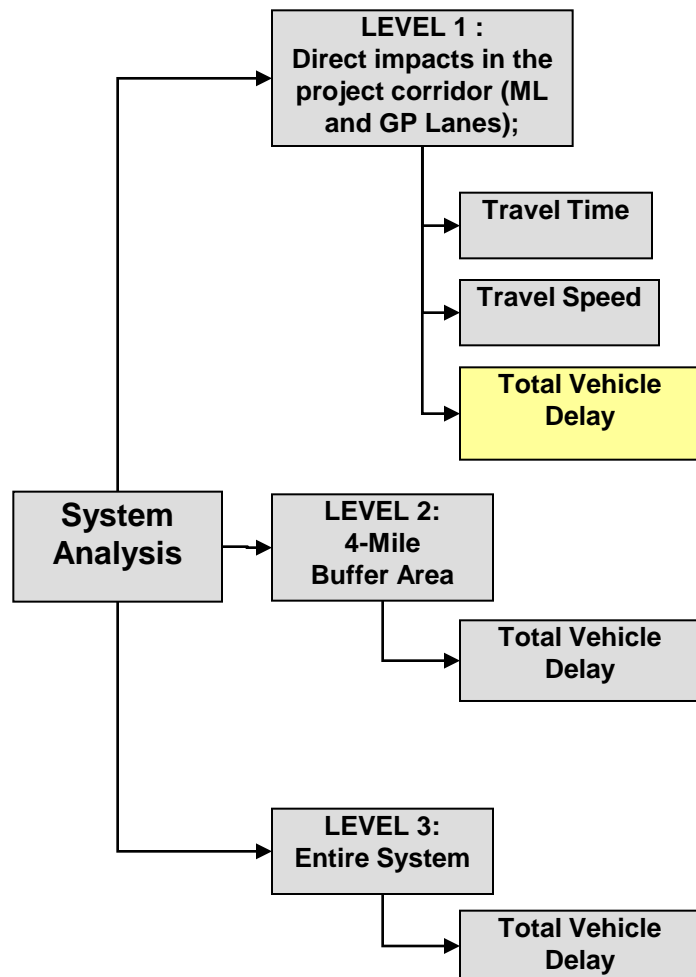
Distance ≈ 17 Miles





# I-285 South Corridor

## – Transportation User Benefits (2030 Max Throughput)



\*Potential range of savings realized in this corridor, in year 2030, if ML are implemented. Numbers derived using Texas Transportation Institute assumptions of \$17.20/hr and 0.68 gallons of fuel/hr. Low end of range associated with TOT Maximum Throughput policy and high end of range associated with 2+2 Maximum Throughput policy.

**Investment Policy**

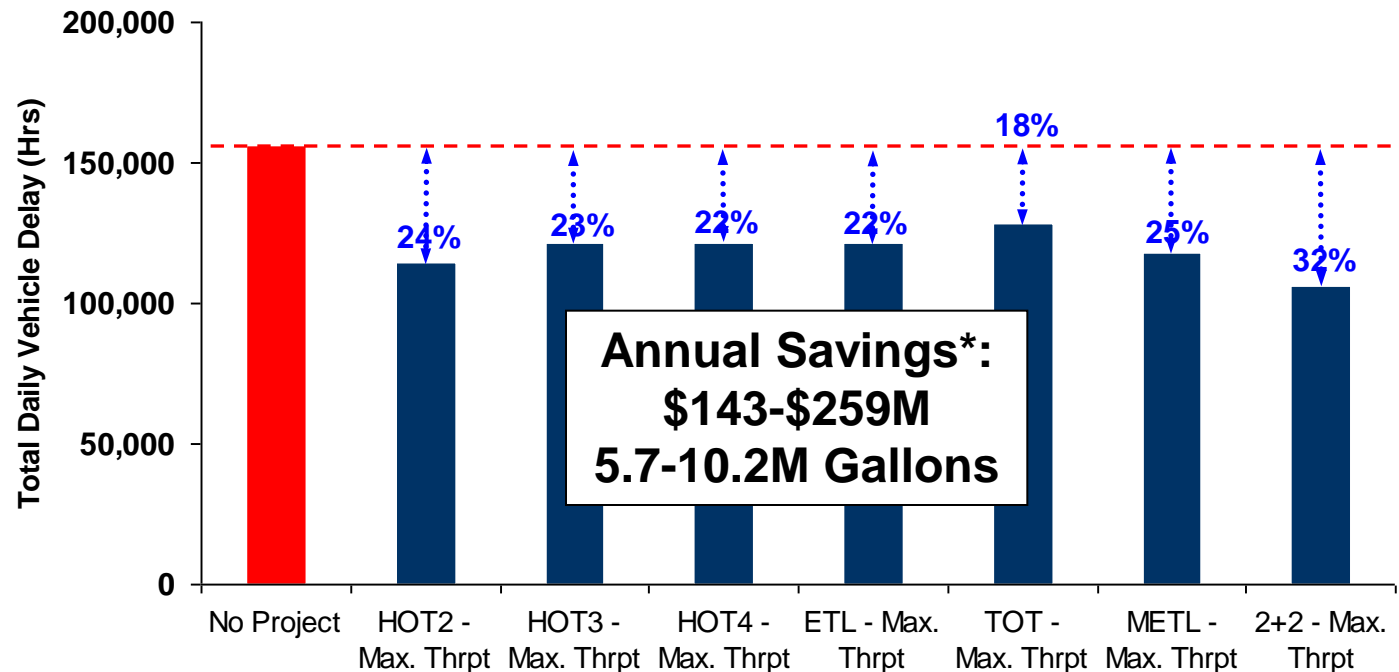
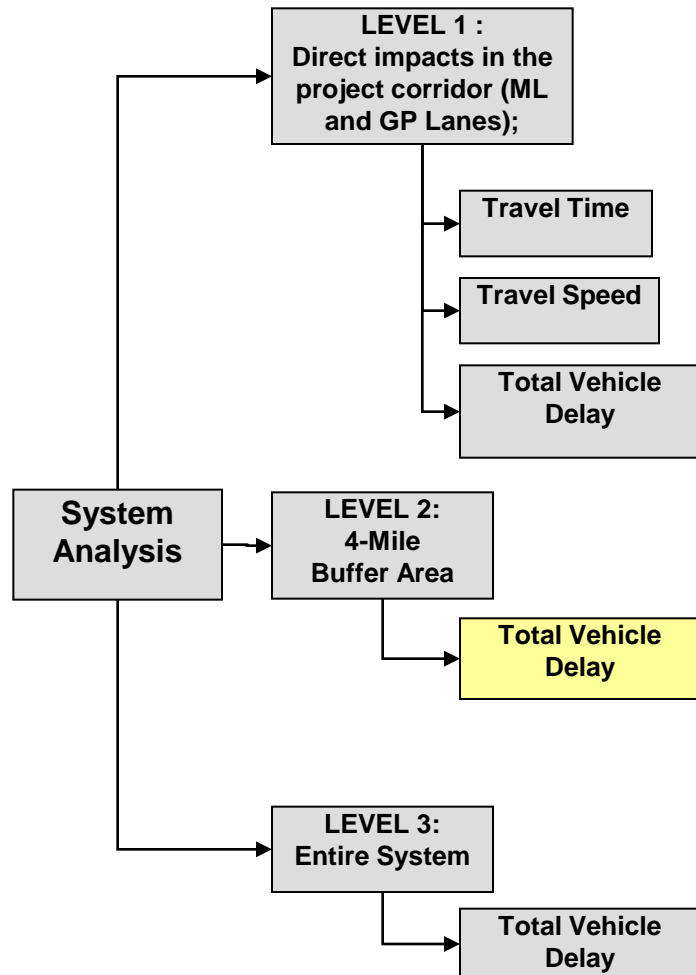
**Distance ≈ 17 Miles**





# I-285 South Corridor

## – Transportation User Benefits (2030 Max Throughput)



\*Potential range of savings realized in this area, in year 2030, if ML are implemented. Numbers derived using Texas Transportation Institute assumptions of \$17.20/hr and 0.68 gallons of fuel/hr. Low end of range associated with TOT Maximum Throughput policy and high end of range associated with 2+2 Maximum Throughput policy.

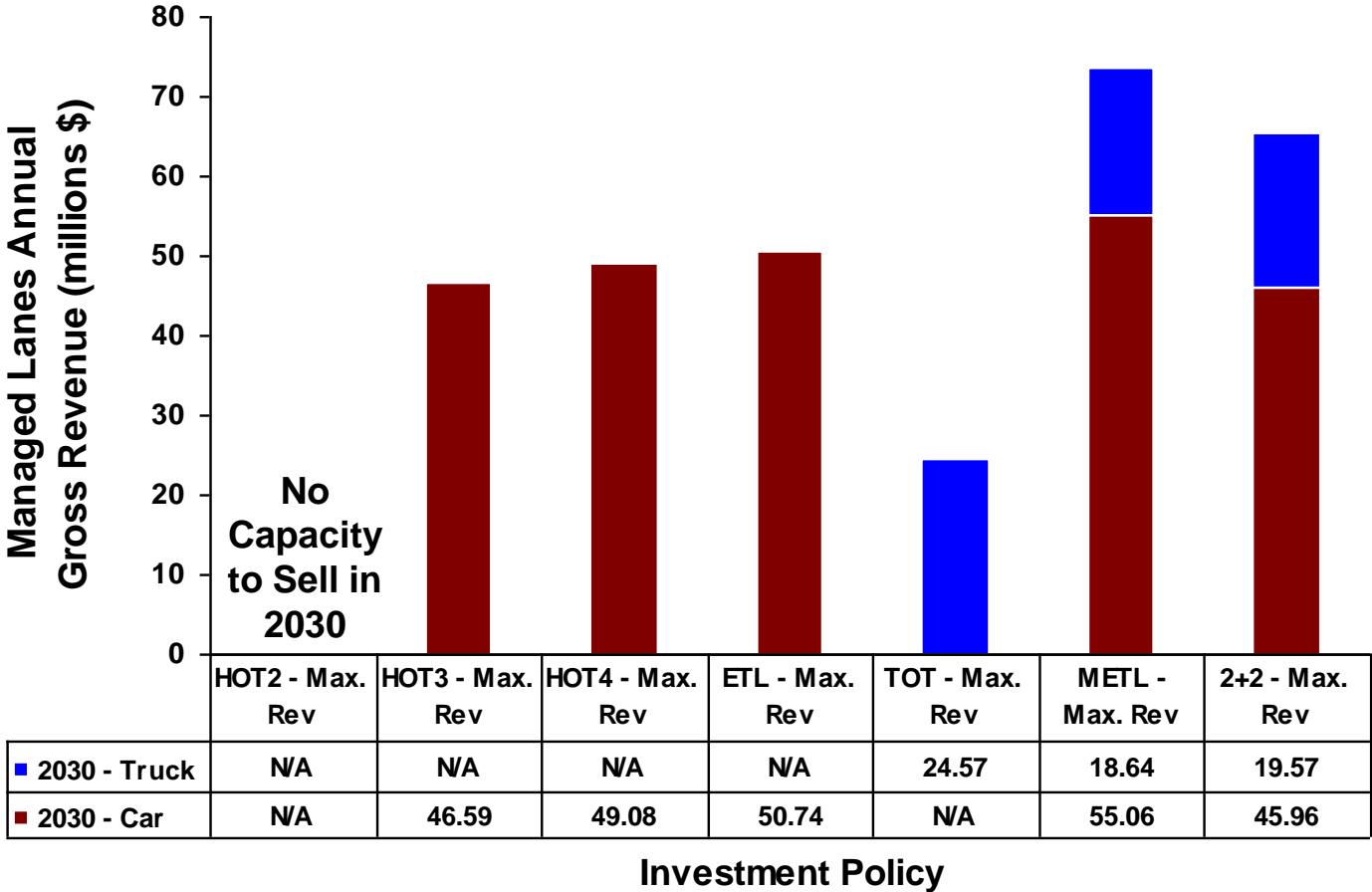
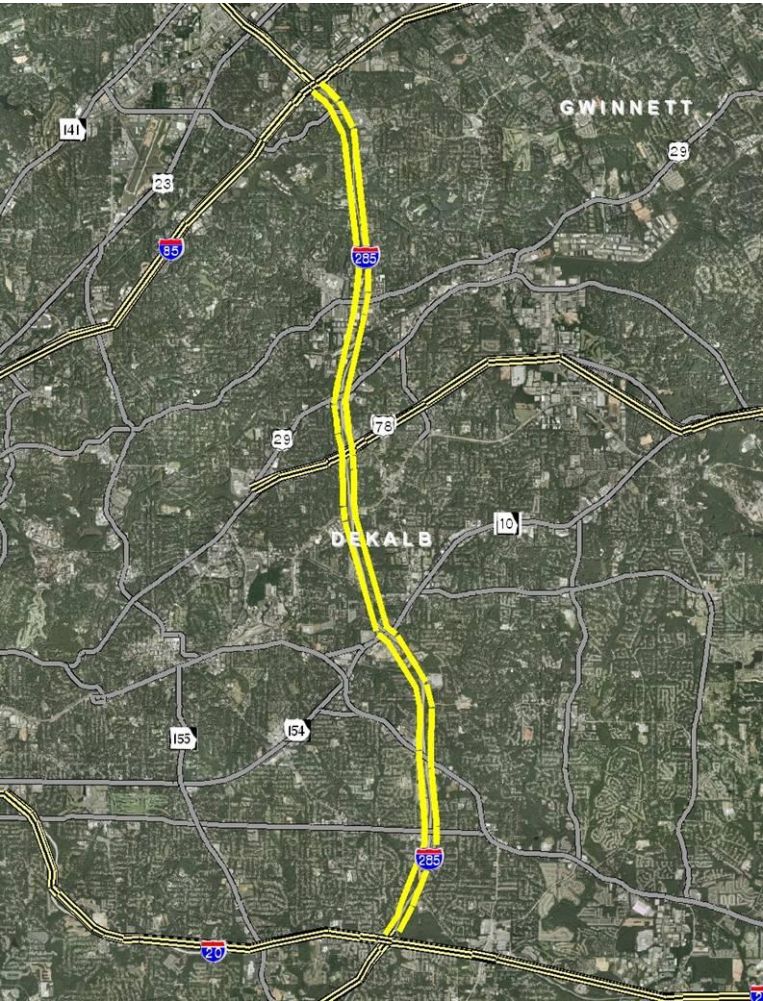
**Investment Policy**

**Distance ≈ 17 Miles**





# I-285 East Corridor – Max Revenue Forecast



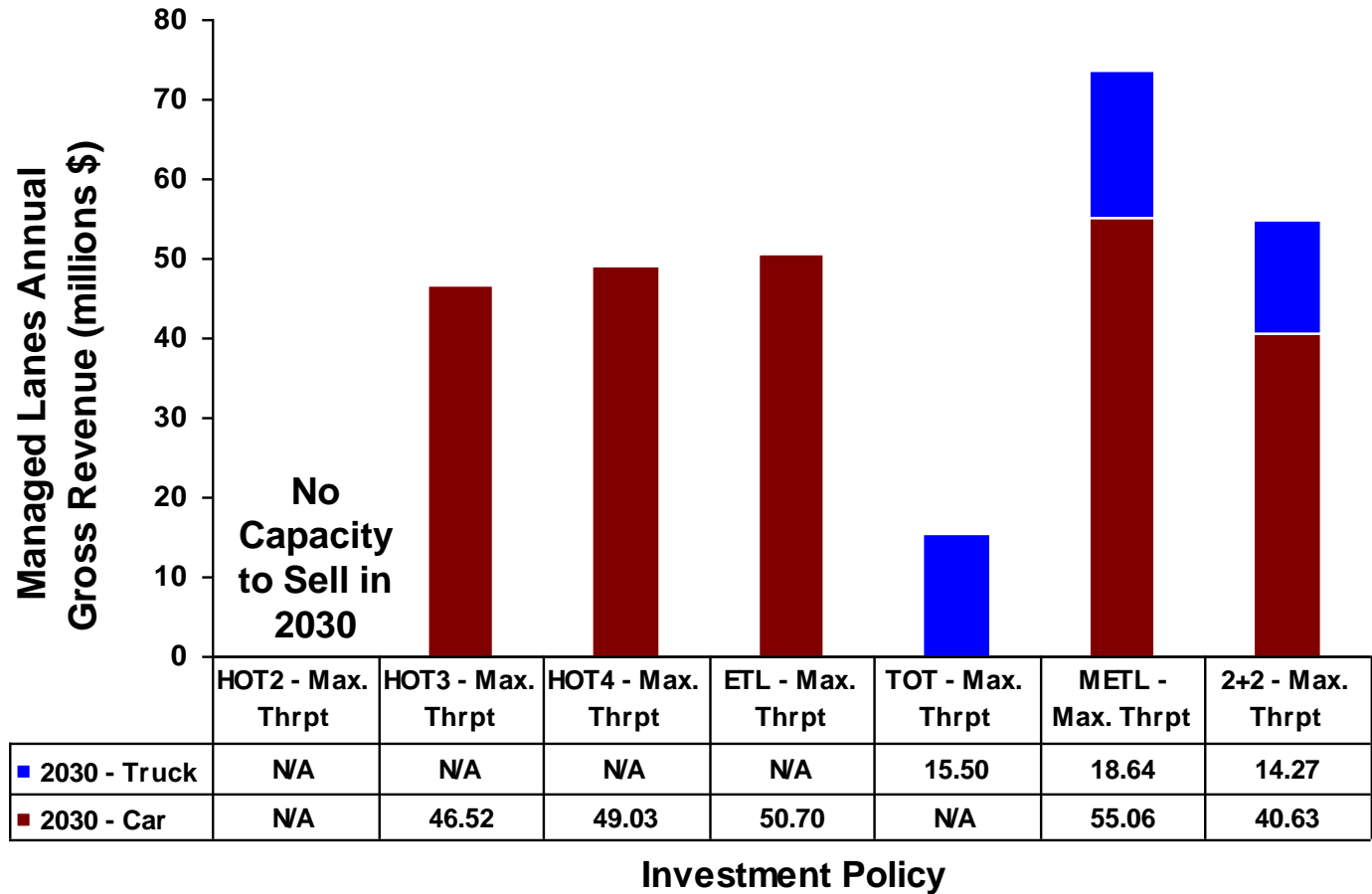
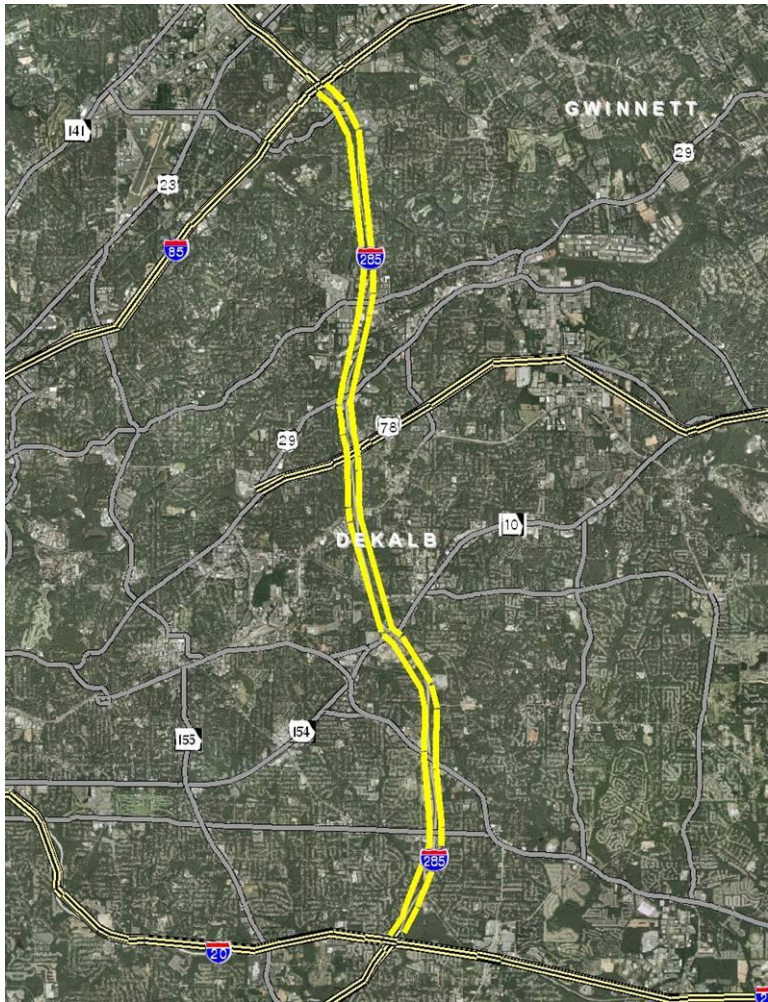
Distance ≈ 14 Miles







# I-285 East Corridor— Max Throughput Forecast



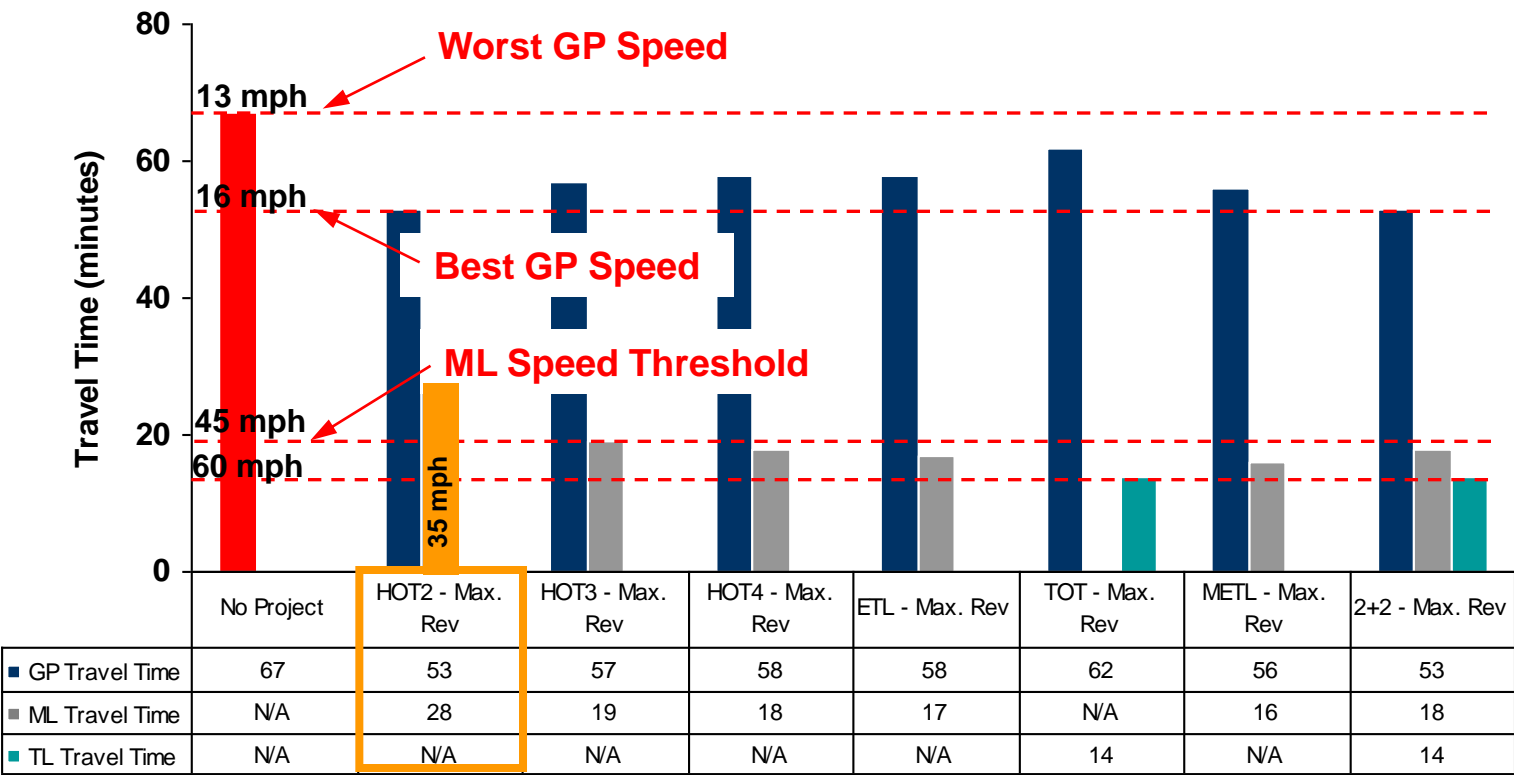
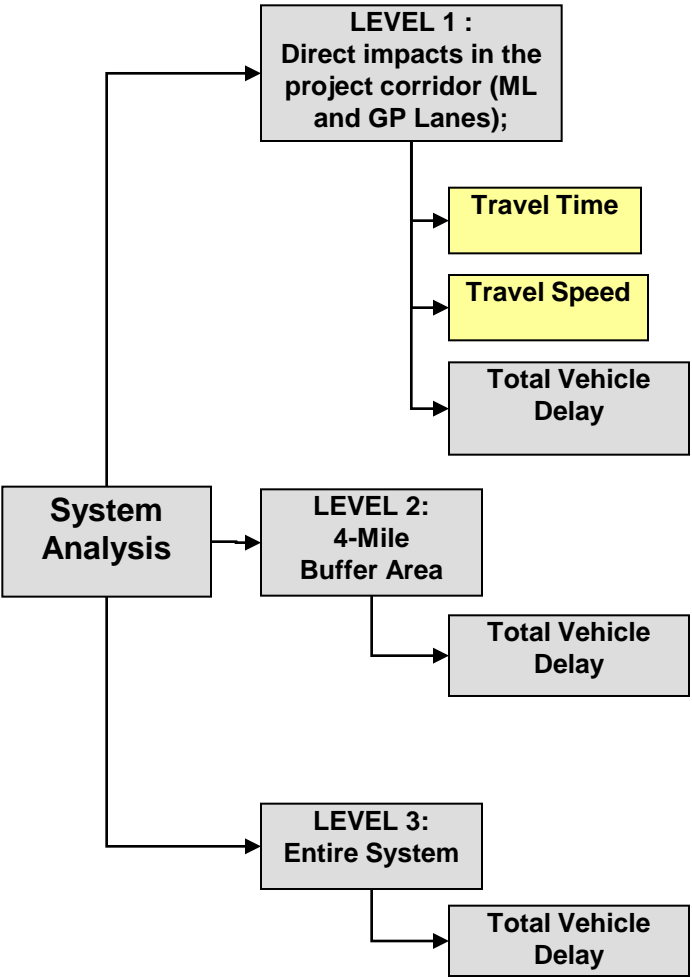
Distance ≈ 14 Miles





# I-285 East Corridor

## – Transportation User Benefits (2030 Max Revenue)



### Investment Policy

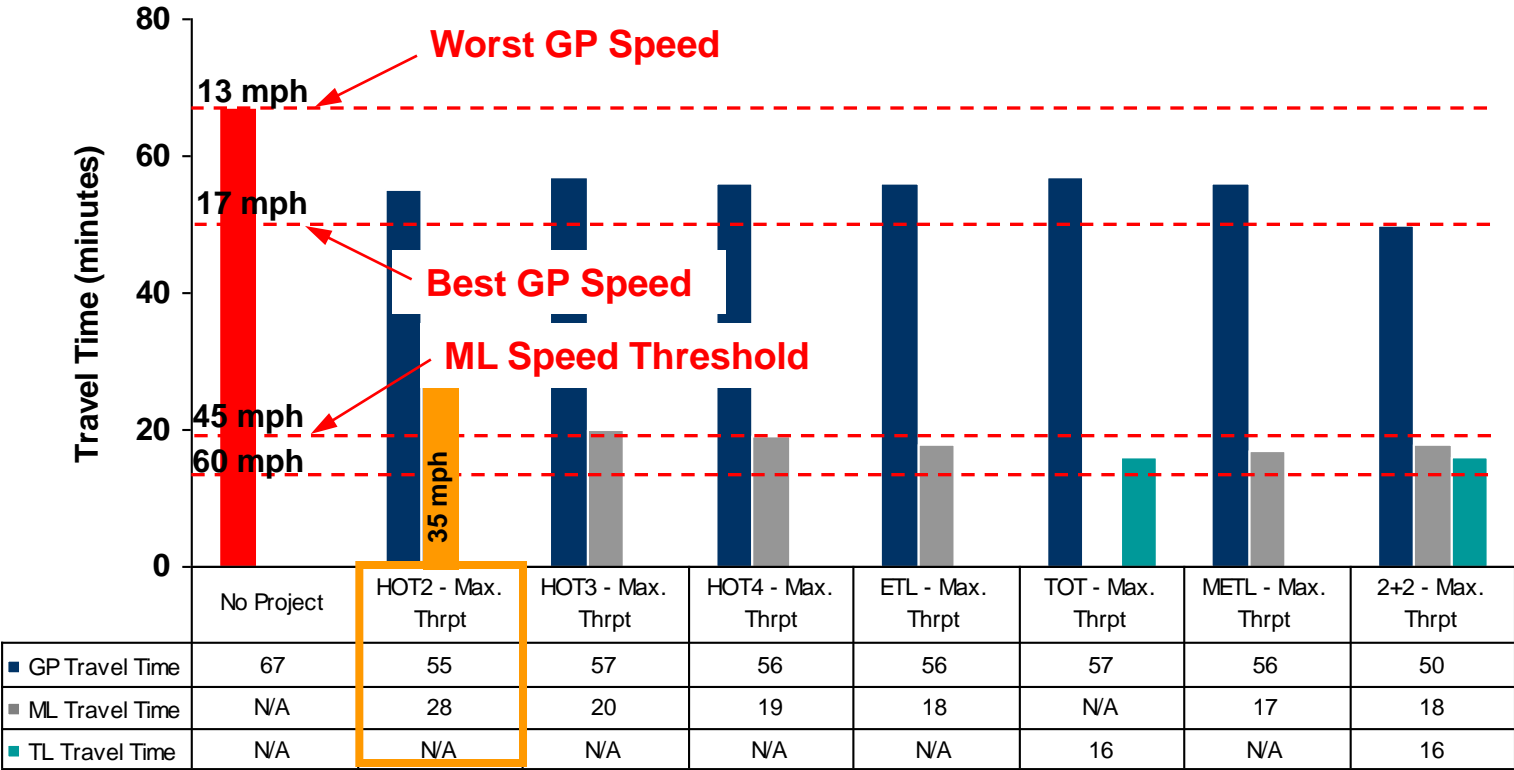
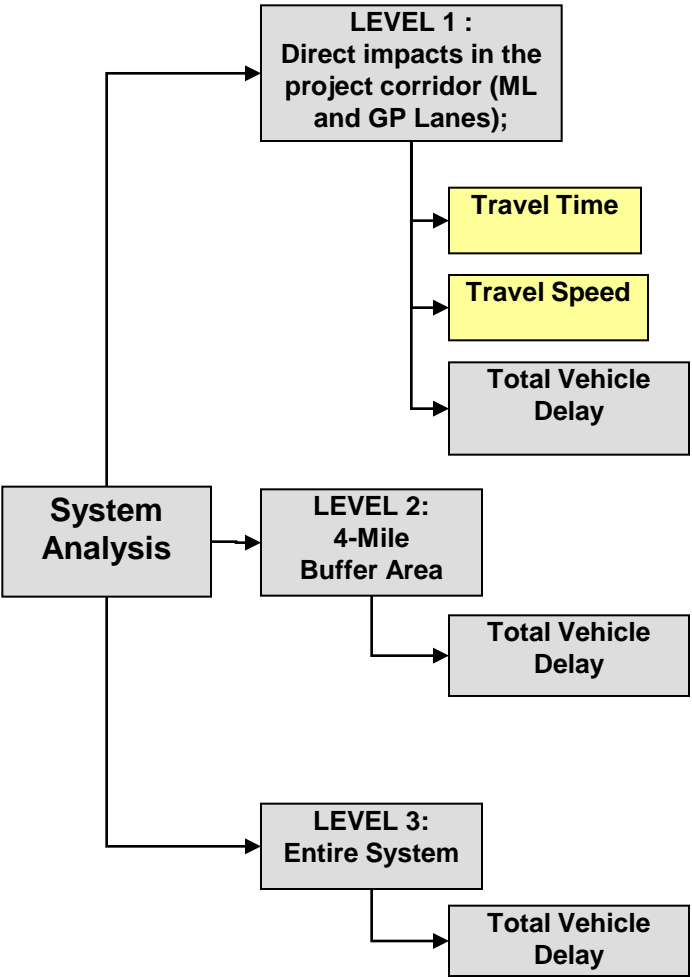
- Distance ≈ 14 Miles
- GP Travel Speed: 13 - 17 mph
- ML Travel Speed: 47 - 53 mph
- TL Travel Speed: 52 - 60 mph





# I-285 East Corridor

## – Transportation User Benefits (2030 Max Throughput)



### Investment Policy

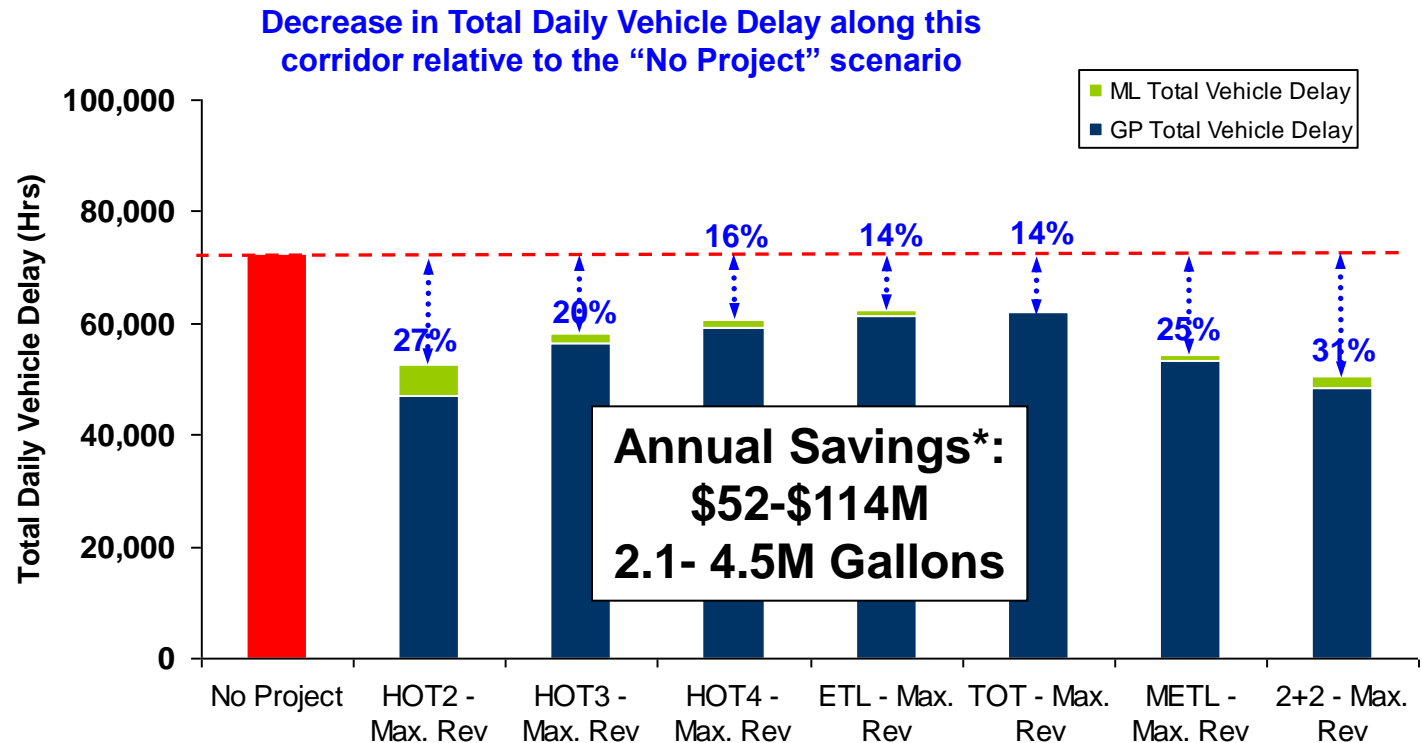
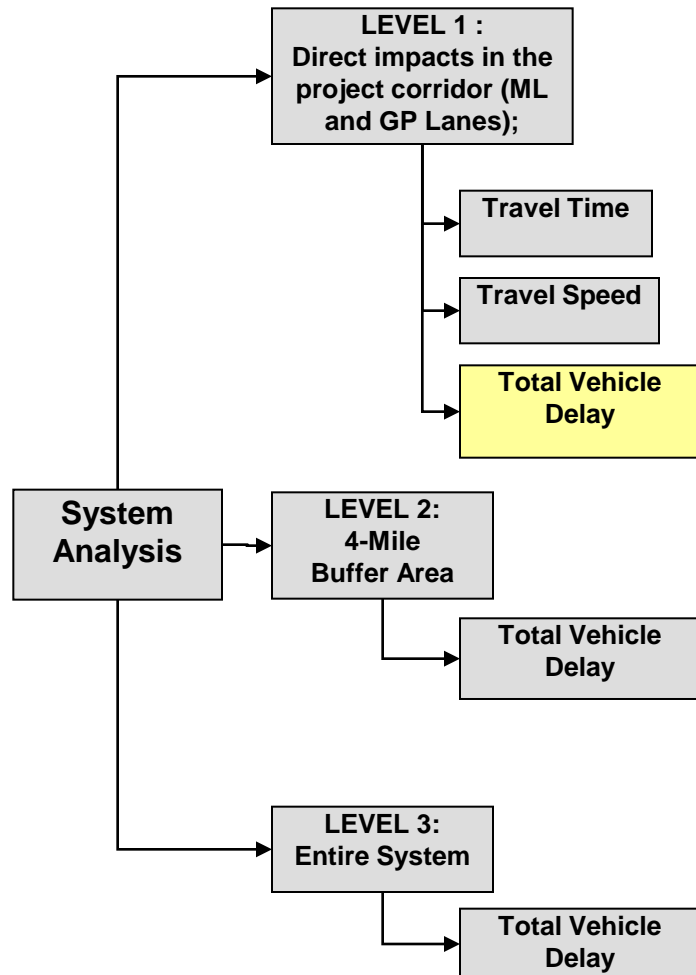
- Distance ≈ 14 Miles
- GP Travel Speed: 13 - 17 mph
- ML Travel Speed: 47 - 53 mph
- TL Travel Speed: 52 - 60 mph





# I-285 East Corridor

## – Transportation User Benefits (2030 Max Revenue)



**Annual Savings\*:**  
**\$52-\$114M**  
**2.1- 4.5M Gallons**

\*Potential range of savings realized in this corridor, in year 2030, if ML are implemented. Numbers derived using Texas Transportation Institute assumptions of \$17.20/hr and 0.68 gallons of fuel/hr. Low end of range associated with TOT Maximum Revenue policy and high end of range associated with 2+2 Maximum Revenue policy.

**Investment Policy**

**Distance ≈ 14 Miles**

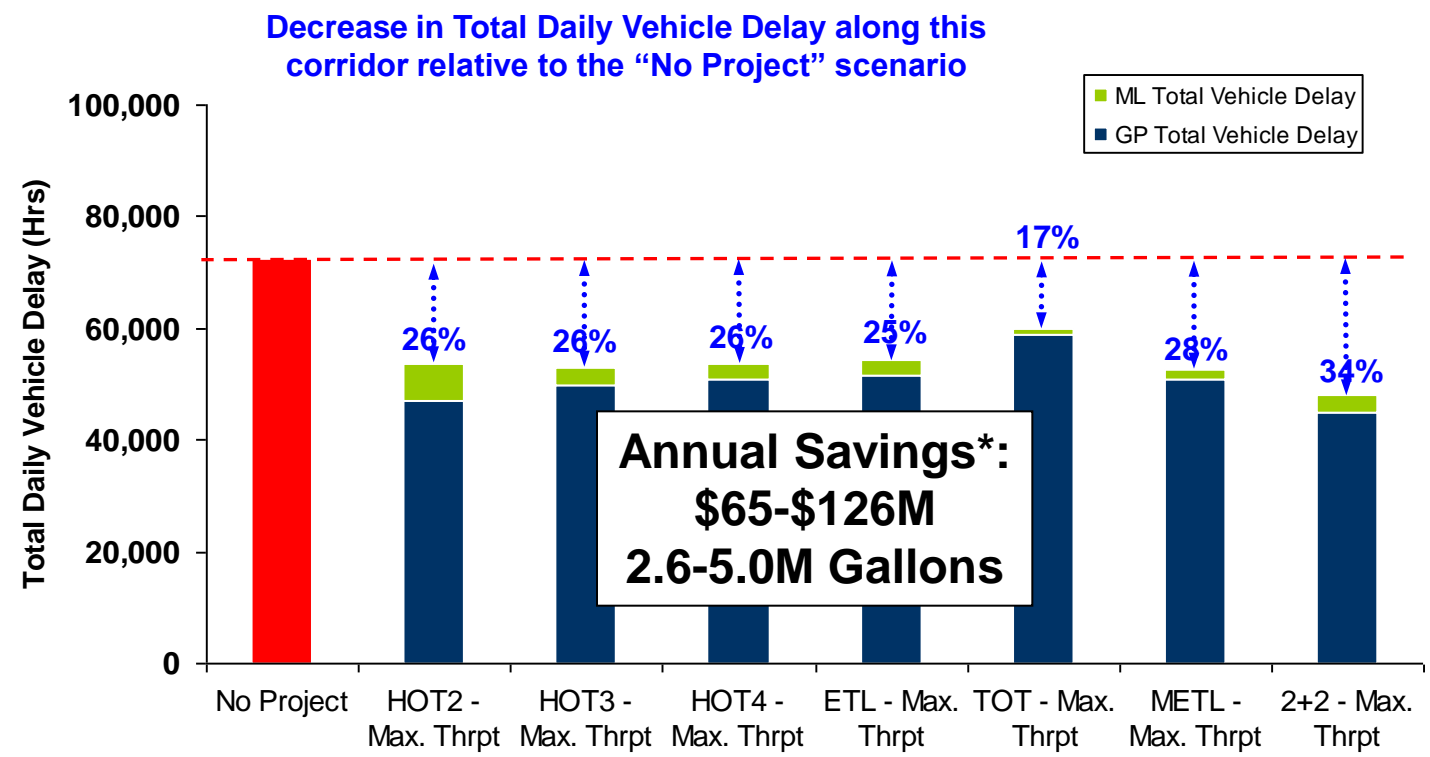
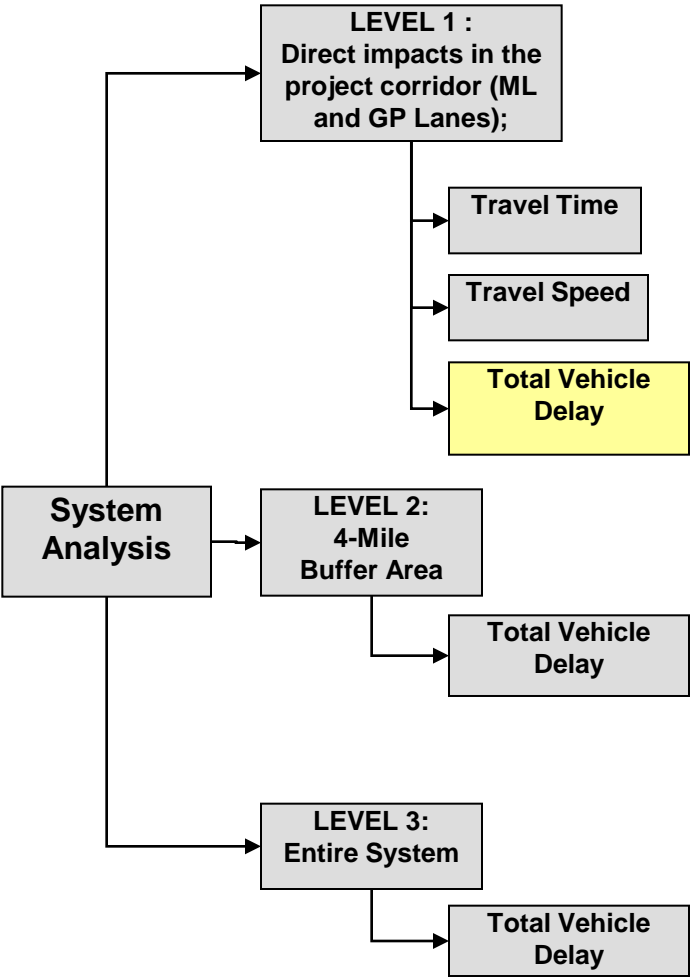






# I-285 East Corridor

## – Transportation User Benefits (2030 Max Throughput)



**Annual Savings\*:**  
**\$65-\$126M**  
**2.6-5.0M Gallons**

\*Potential range of savings realized in this corridor, in year 2030, if ML are implemented. Numbers derived using Texas Transportation Institute assumptions of \$17.20/hr and 0.68 gallons of fuel/hr. Low end of range associated with TOT Maximum Throughput policy and high end of range associated with 2+2 Maximum Throughput policy.

**Investment Policy**

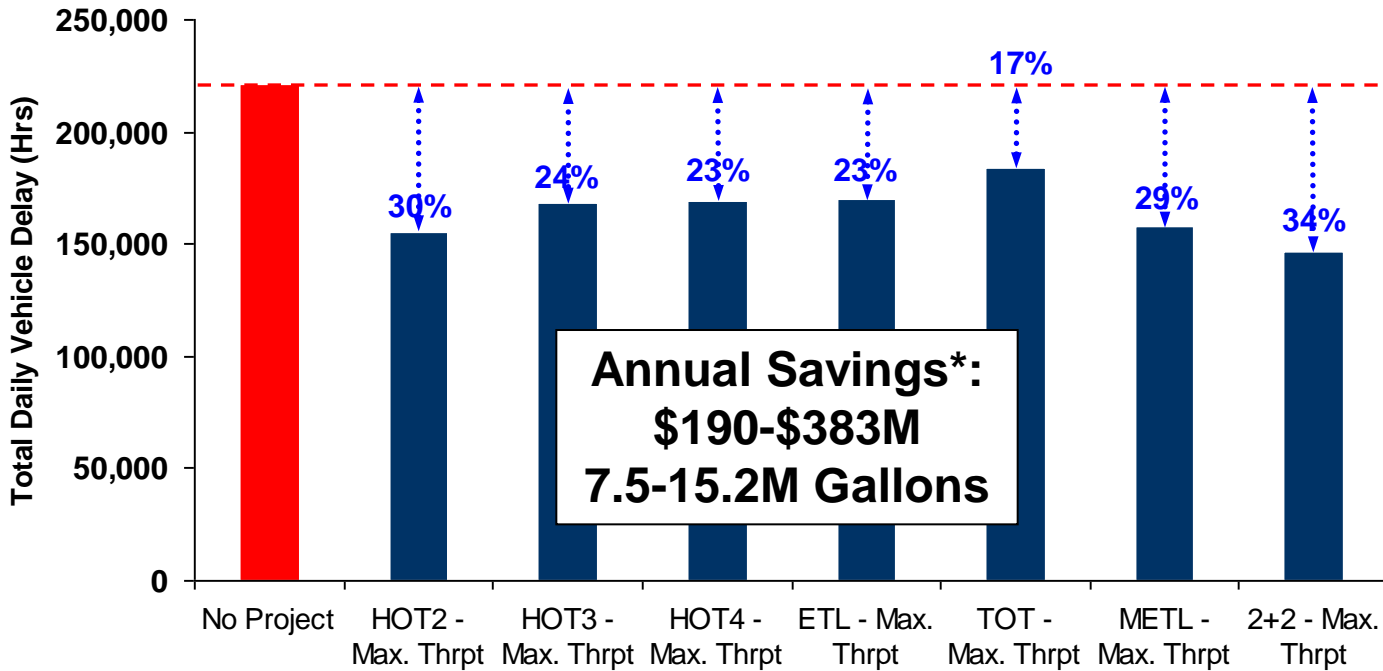
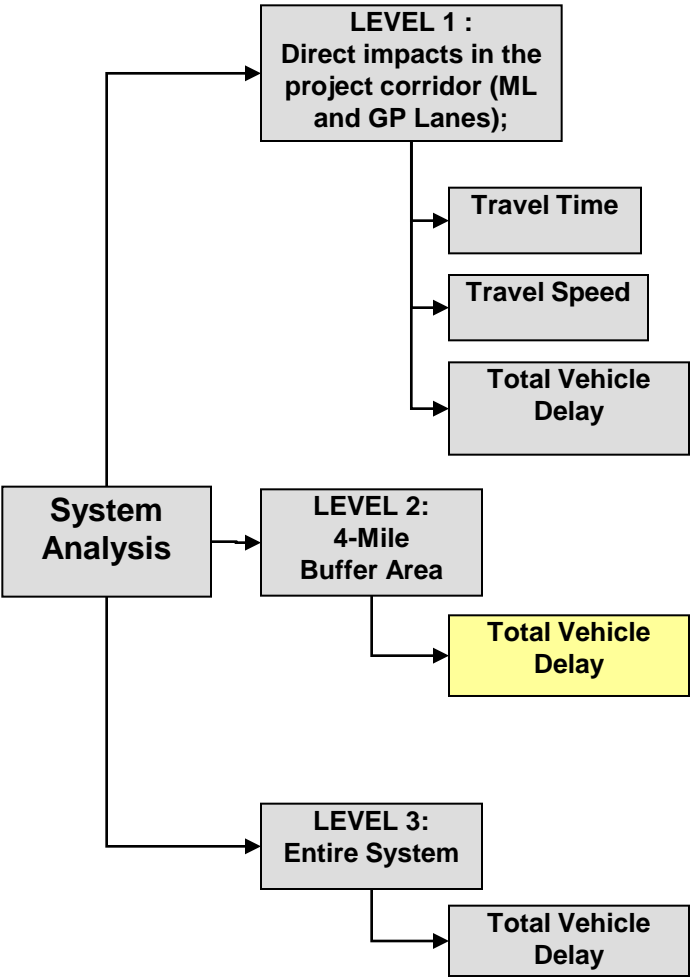
**Distance ≈ 14 Miles**





# I-285 East Corridor

## – Transportation User Benefits (2030)



**Annual Savings\*:**  
**\$190-\$383M**  
**7.5-15.2M Gallons**

\*Potential range of savings realized in this area, in year 2030, if ML are implemented. Numbers derived using Texas Transportation Institute assumptions of \$17.20/hr and 0.68 gallons of fuel/hr. Low end of range associated with TOT Maximum Throughput policy and high end of range associated with 2+2 Maximum Throughput policy.

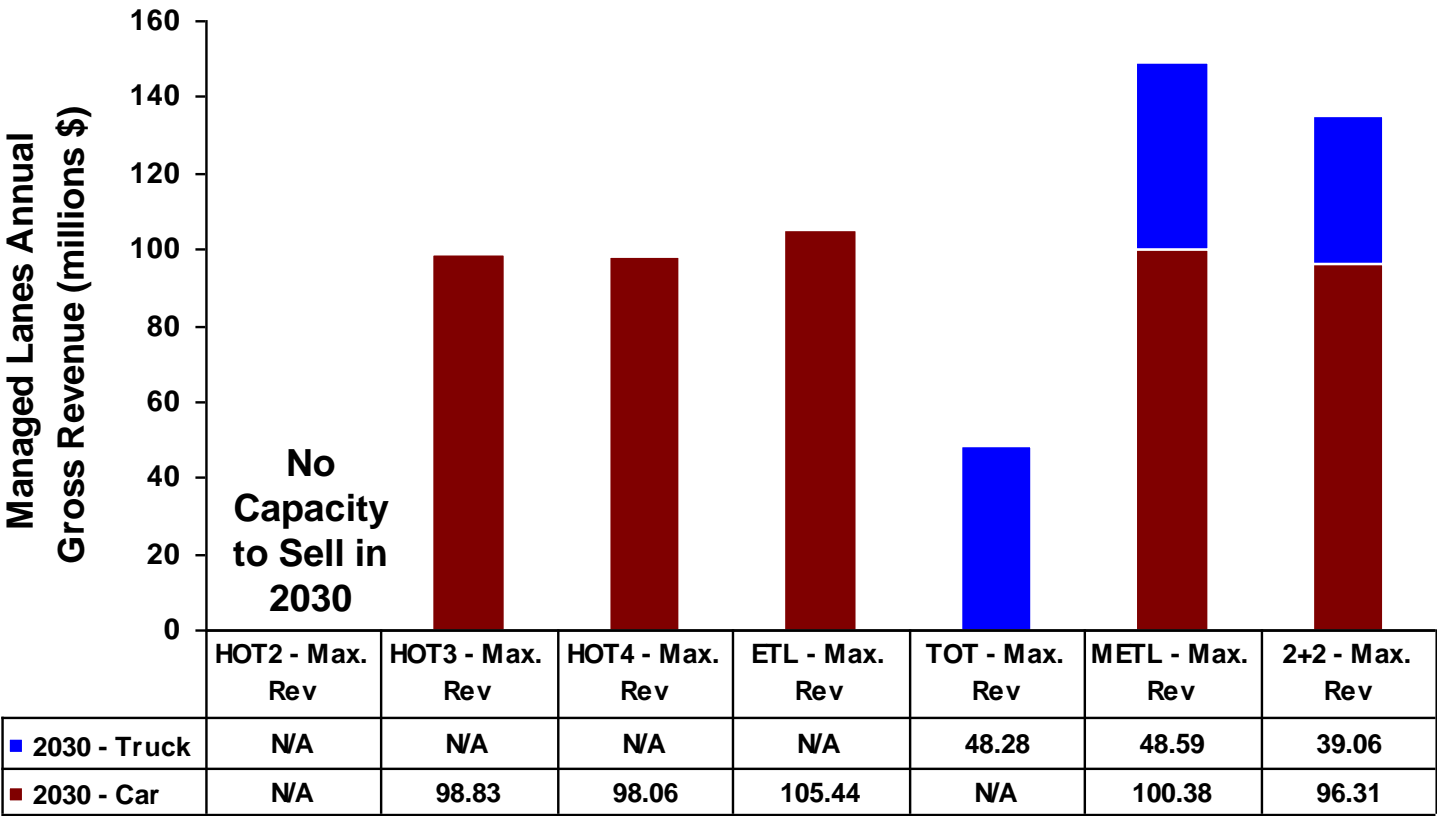
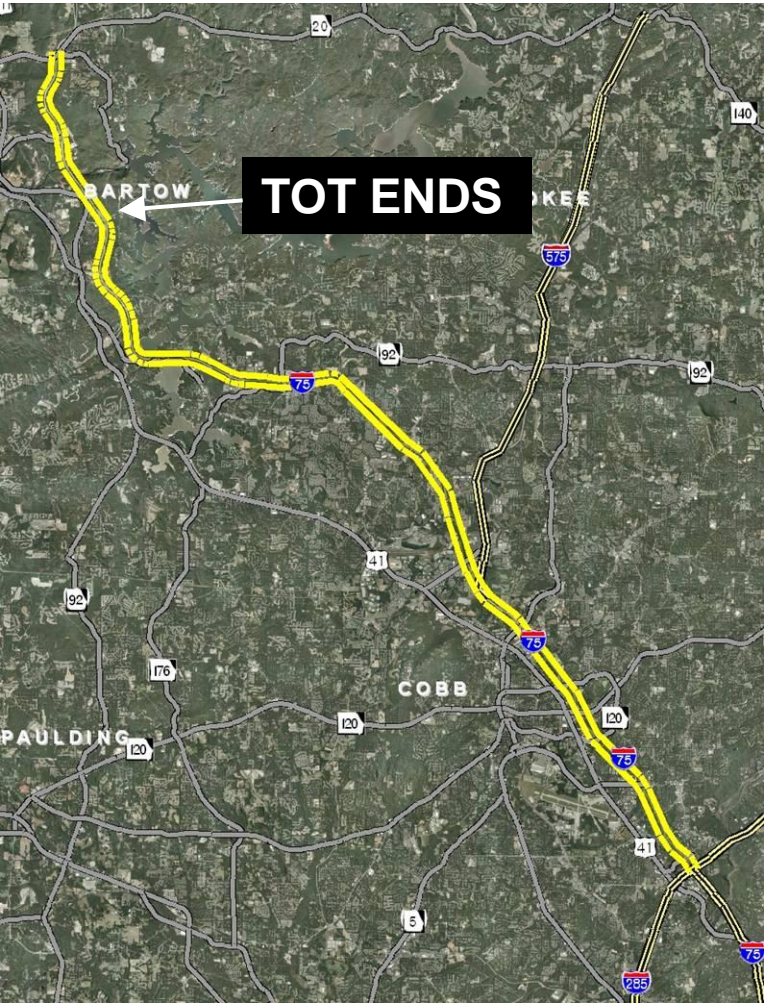
**Investment Policy**

**Distance ≈ 14 Miles**





# I-75 North Corridor – Max Revenue Forecast



Investment Policy

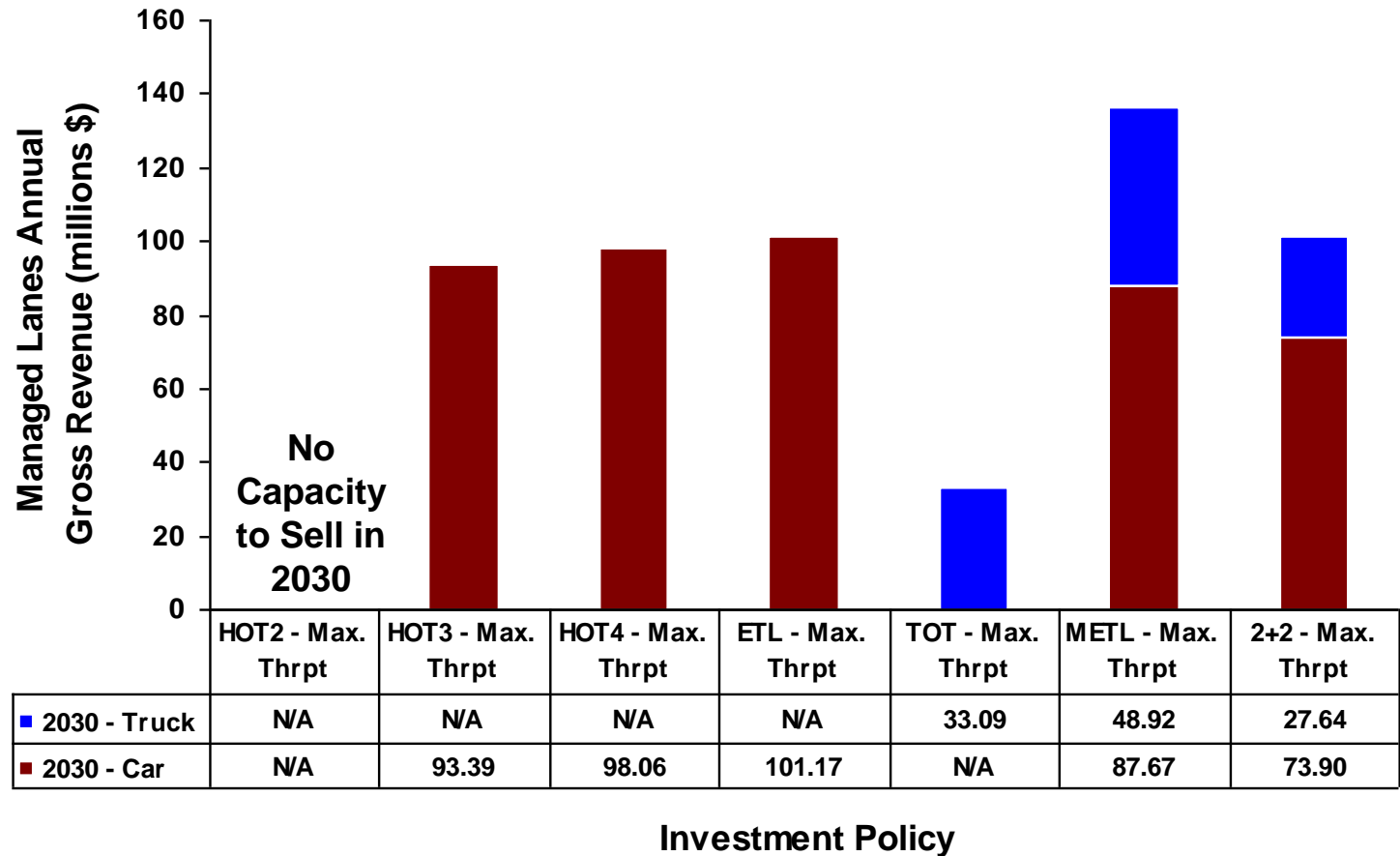
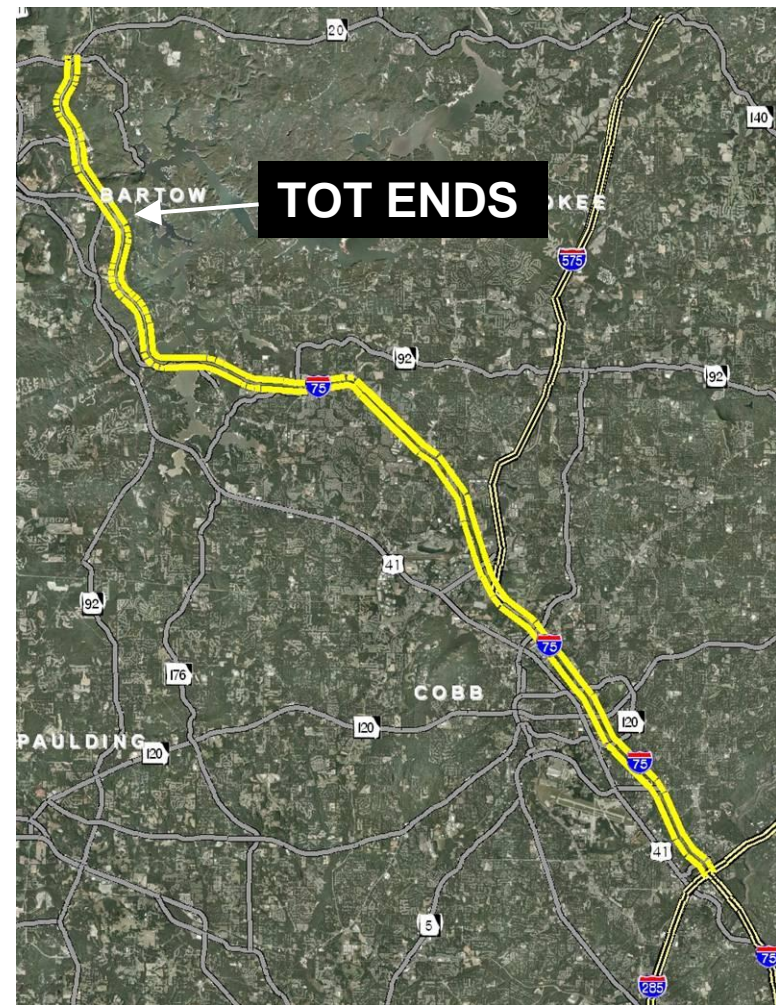
Distance ≈ 30 Miles







# I-75 North Corridor – Max Throughput Forecast



Distance ≈ 30 Miles

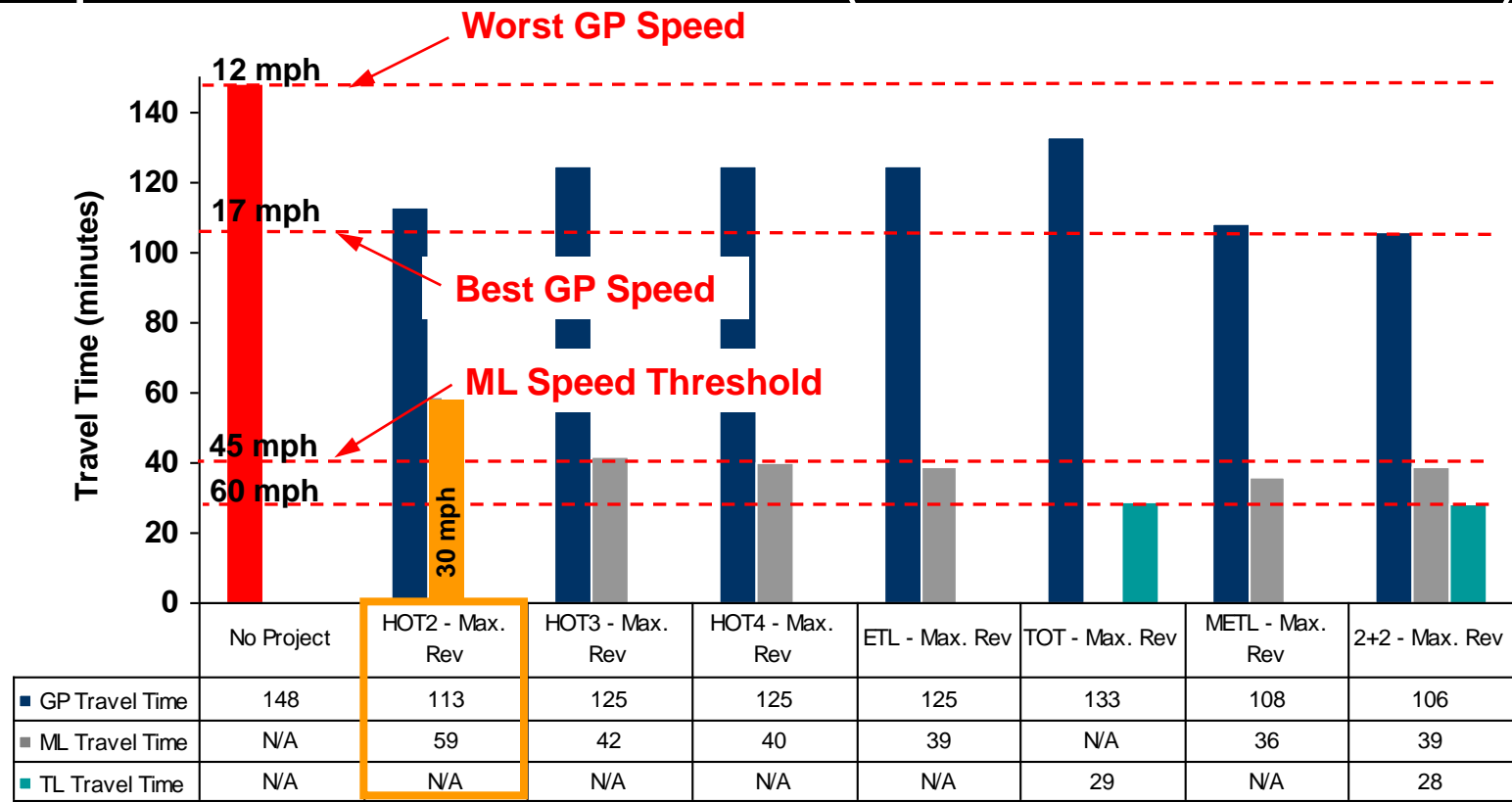
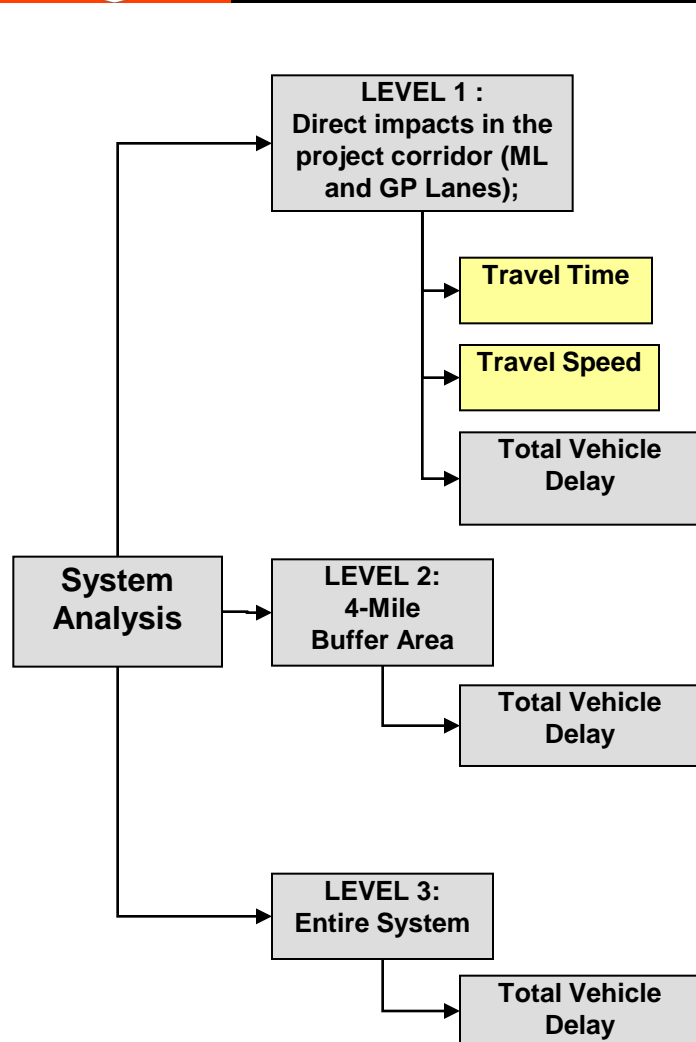






# I-75 North Corridor

## – Transportation User Benefits (2030 Max Revenue)



### Investment Policy

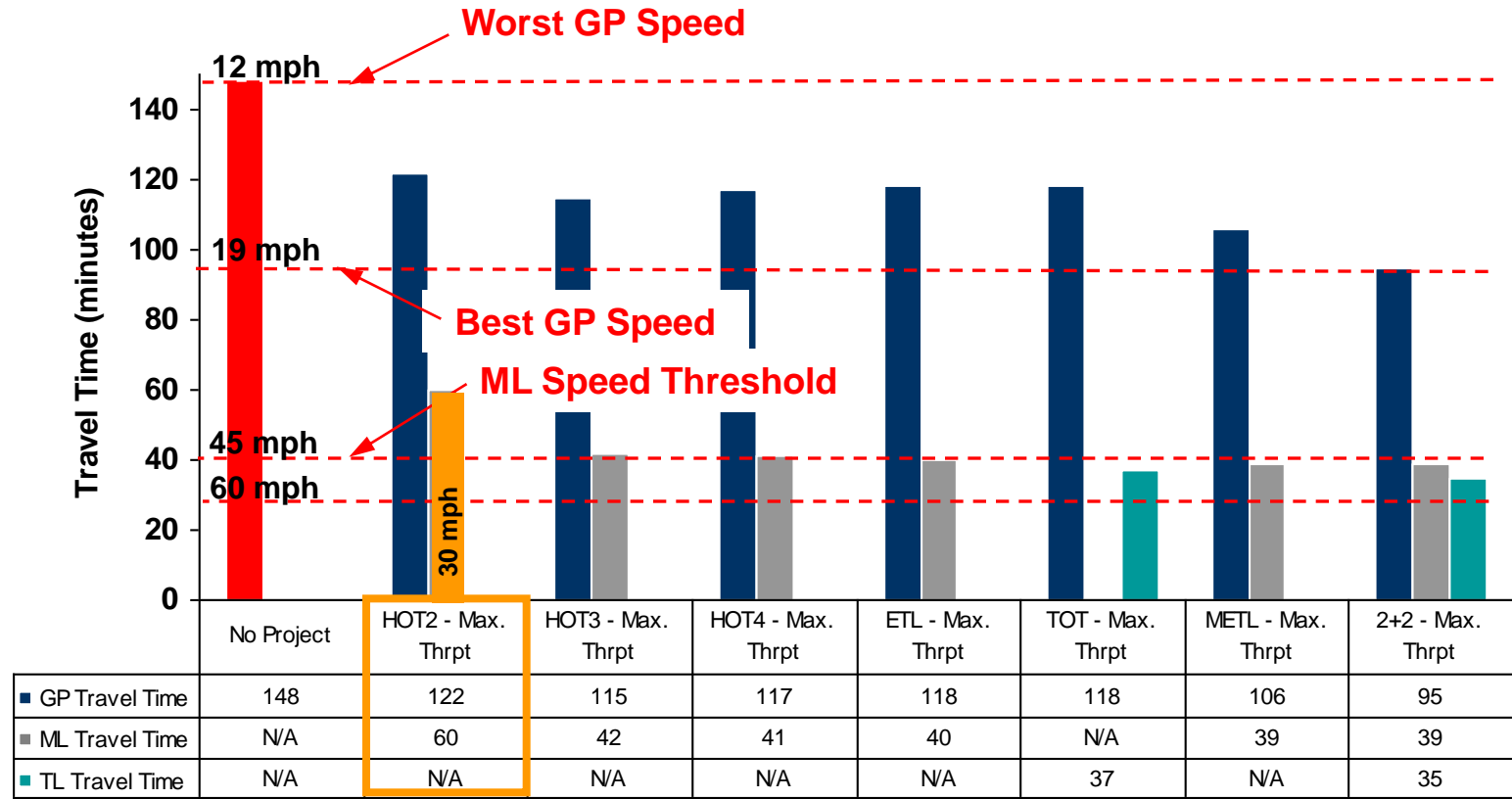
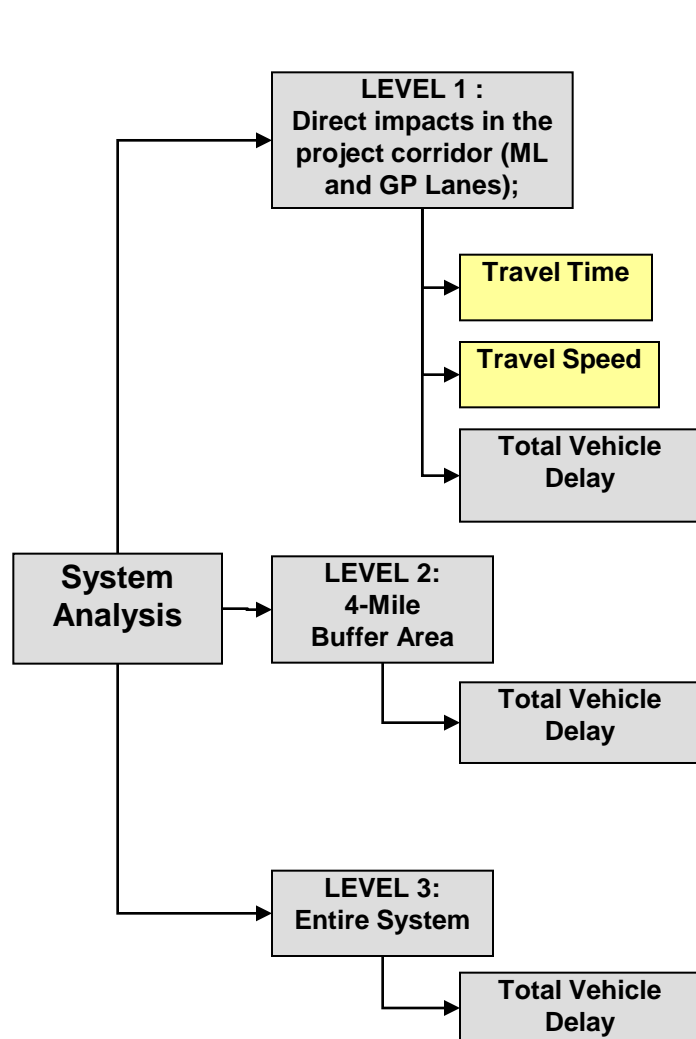
- Distance ≈ 30 Miles
- GP Travel Speed: 12 - 19 mph
- ML Travel Speed: 45 - 50 mph
- TL Travel Speed: 45 - 60 mph





# I-75 North Corridor

## – Transportation User Benefits (2030 Max Throughput)



### Investment Policy

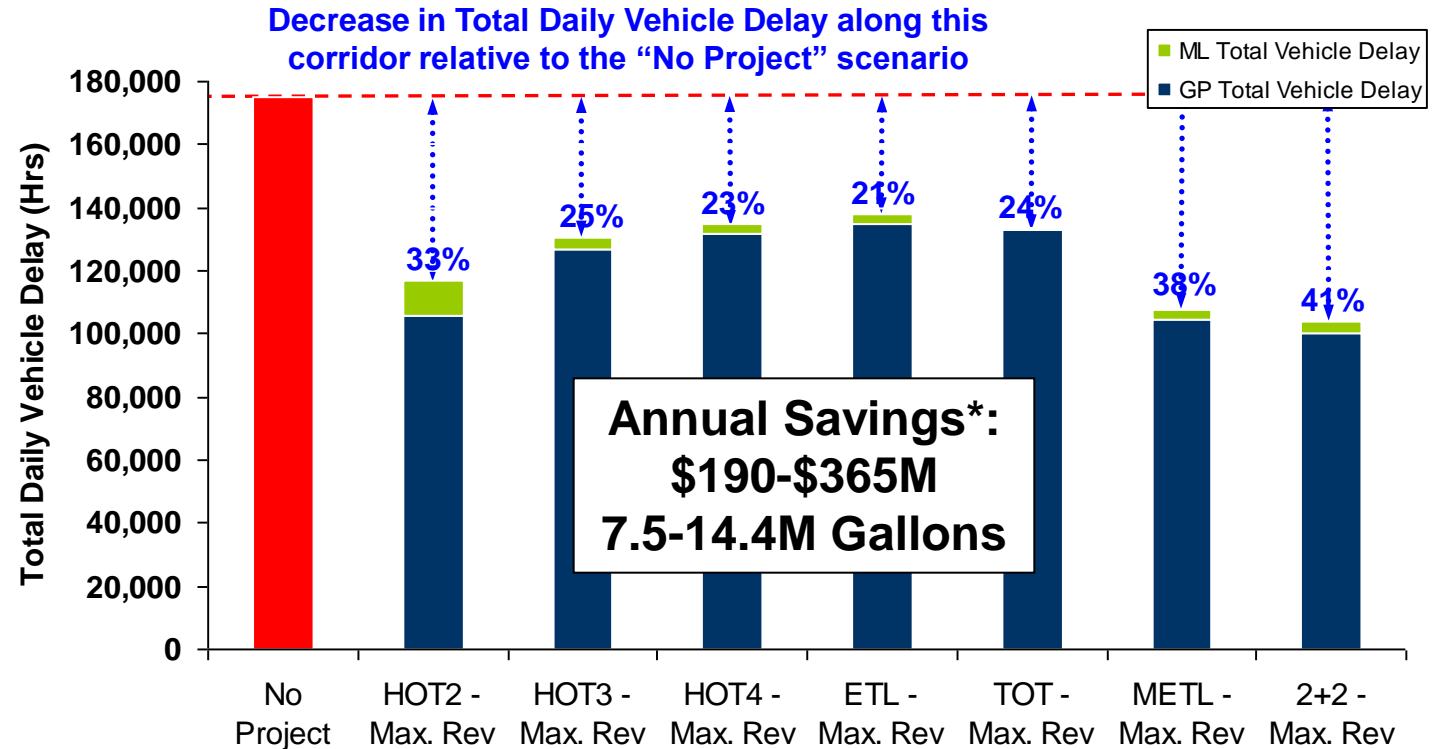
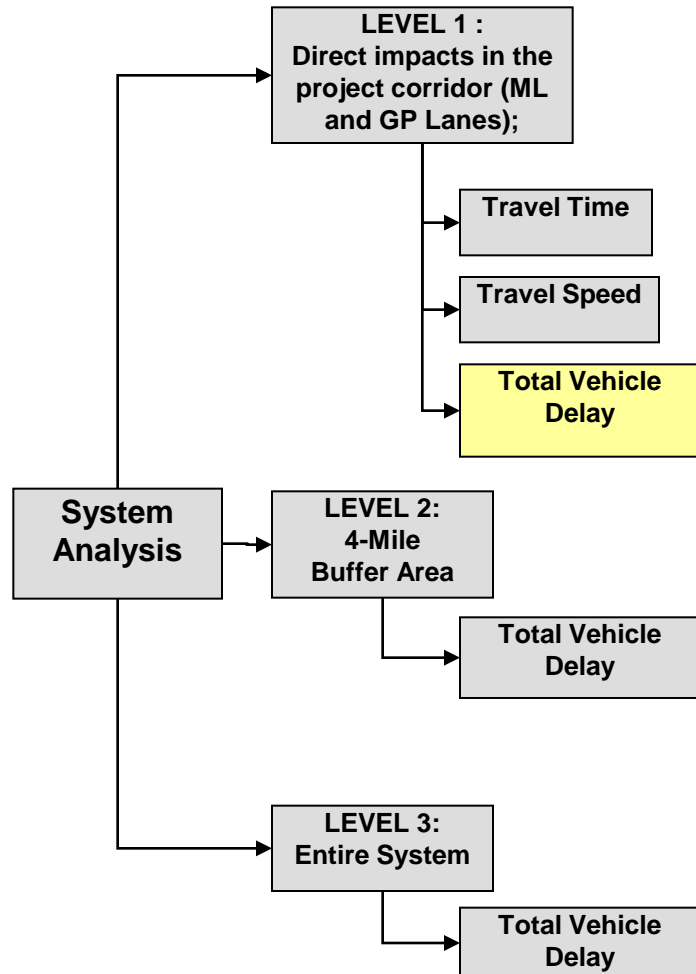
- Distance ≈ 30 Miles
- GP Travel Speed: 12 - 19 mph
- ML Travel Speed: 45 - 50 mph
- TL Travel Speed: 45 - 60 mph





# I-75 North Corridor

## – Transportation User Benefits (2030 Max Revenue)



\*Potential range of savings realized in this corridor, in year 2030, if ML are implemented. Numbers derived using Texas Transportation Institute assumptions of \$17.20/hr and 0.68 gallons of fuel/hr. Low end of range associated with TOT Maximum Revenue policy and high end of range associated with 2+2 Maximum Revenue policy.

**Investment Policy**

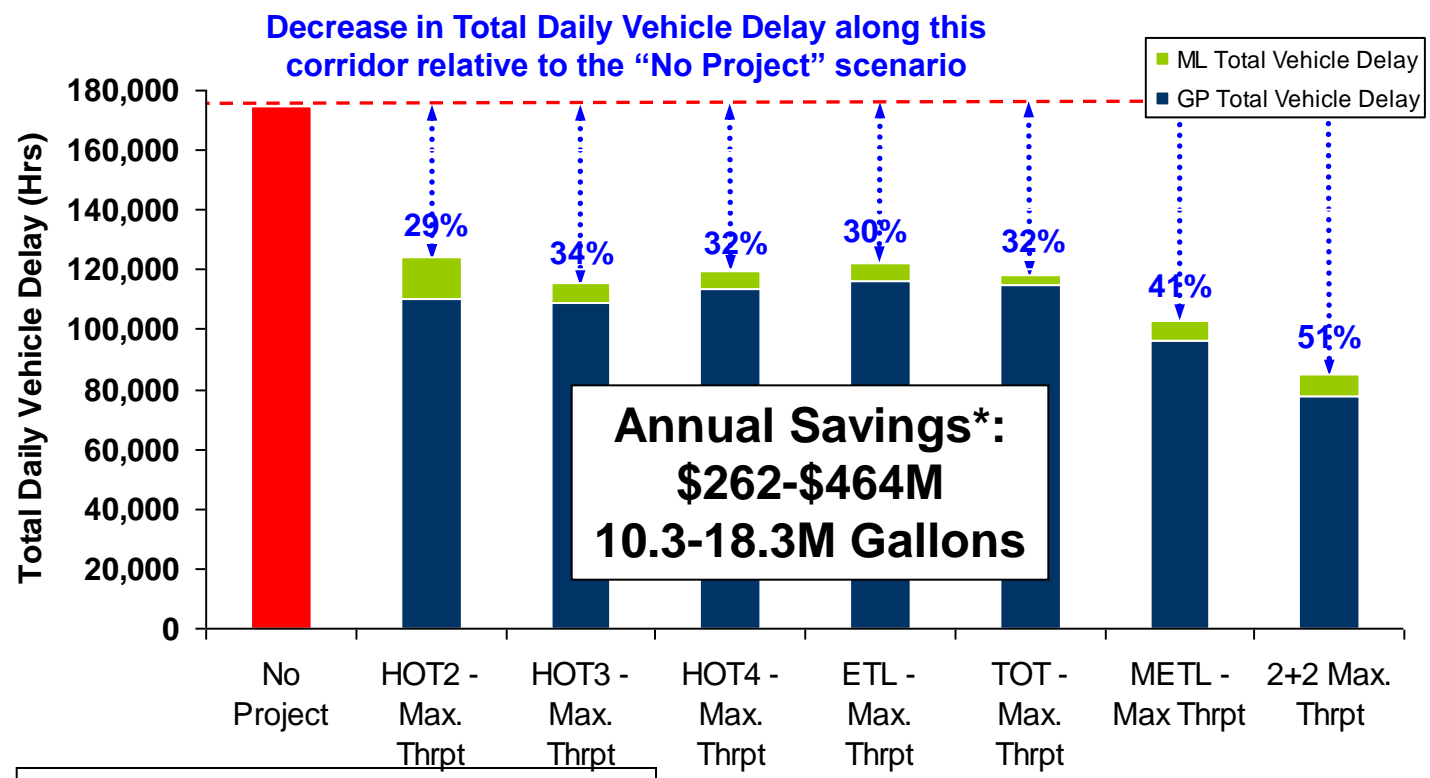
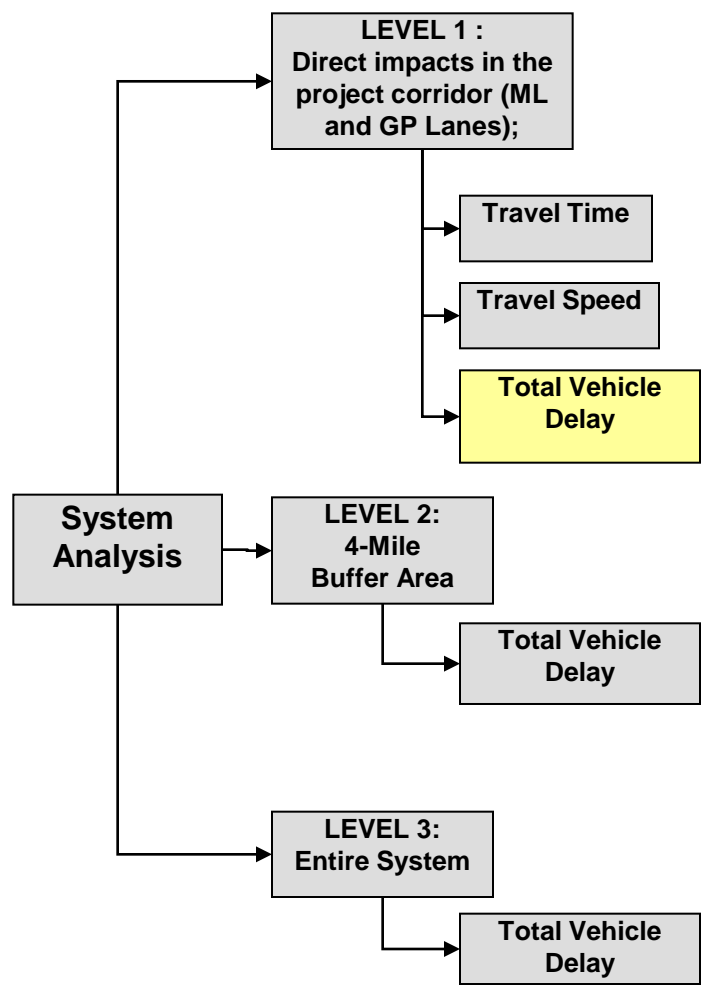
**Distance ≈ 30 Miles**





# I-75 North Corridor

## – Transportation User Benefits (2030 Max Throughput)



**Annual Savings\*:**  
**\$262-\$464M**  
**10.3-18.3M Gallons**

\*Potential range of savings realized in this corridor, in year 2030, if ML are implemented. Numbers derived using Texas Transportation Institute assumptions of \$17.20/hr and 0.68 gallons of fuel/hr. Low end of range associated with TOT Maximum Throughput policy and high end of range associated with 2+2 Maximum Throughput policy.

**Investment Policy**

**Distance ≈ 30 Miles**

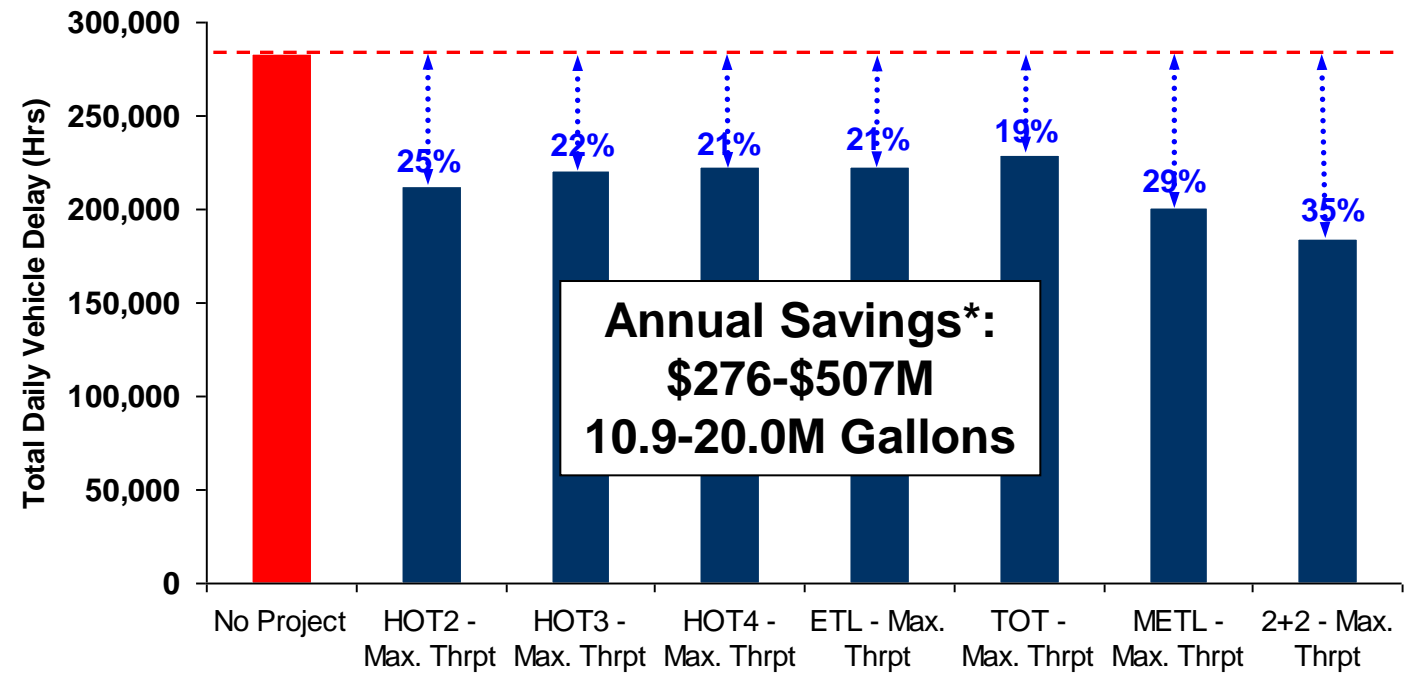
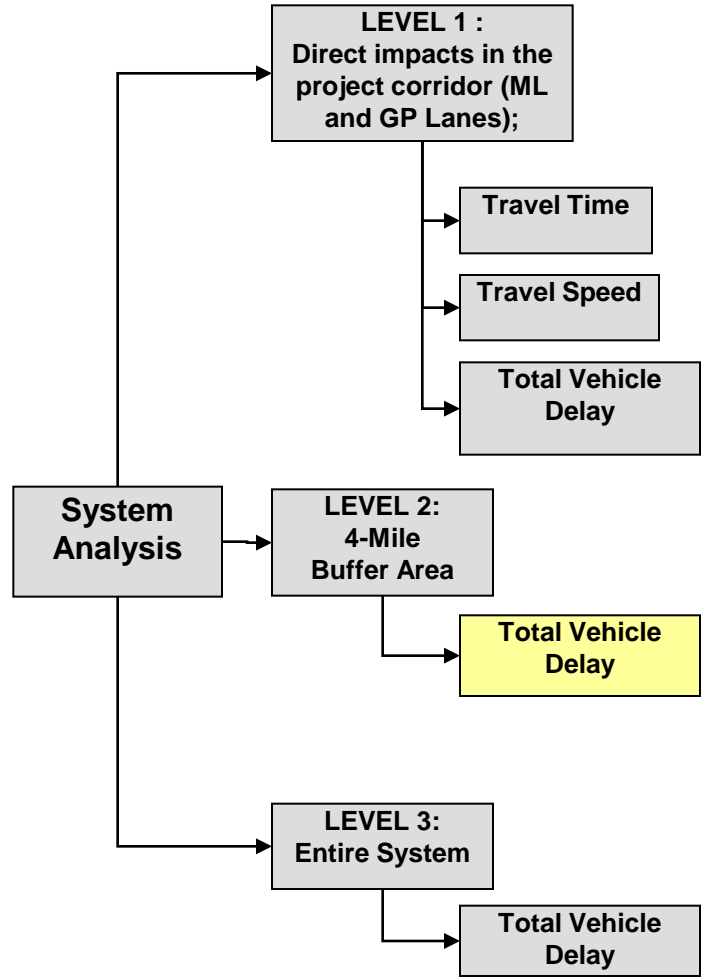






# I-75 North Corridor

## – Transportation User Benefits (2030 Max Throughput)



**Annual Savings\*:**  
**\$276-\$507M**  
**10.9-20.0M Gallons**

\*Potential range of savings realized in this corridor, in year 2030, if ML are implemented. Numbers derived using Texas Transportation Institute assumptions of \$17.20/hr and 0.68 gallons of fuel/hr. Low end of range associated with TOT Maximum Throughput policy and high end of range associated with 2+2 Maximum Throughput policy.

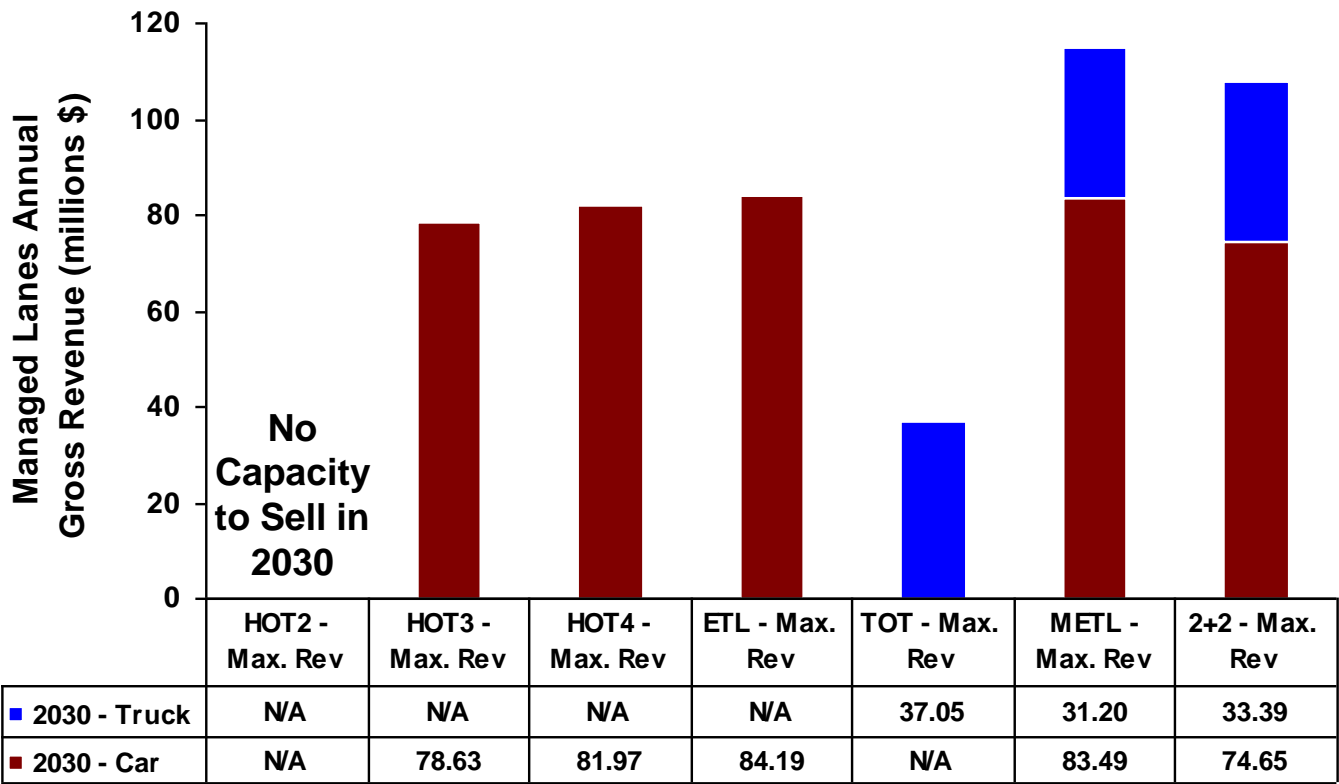
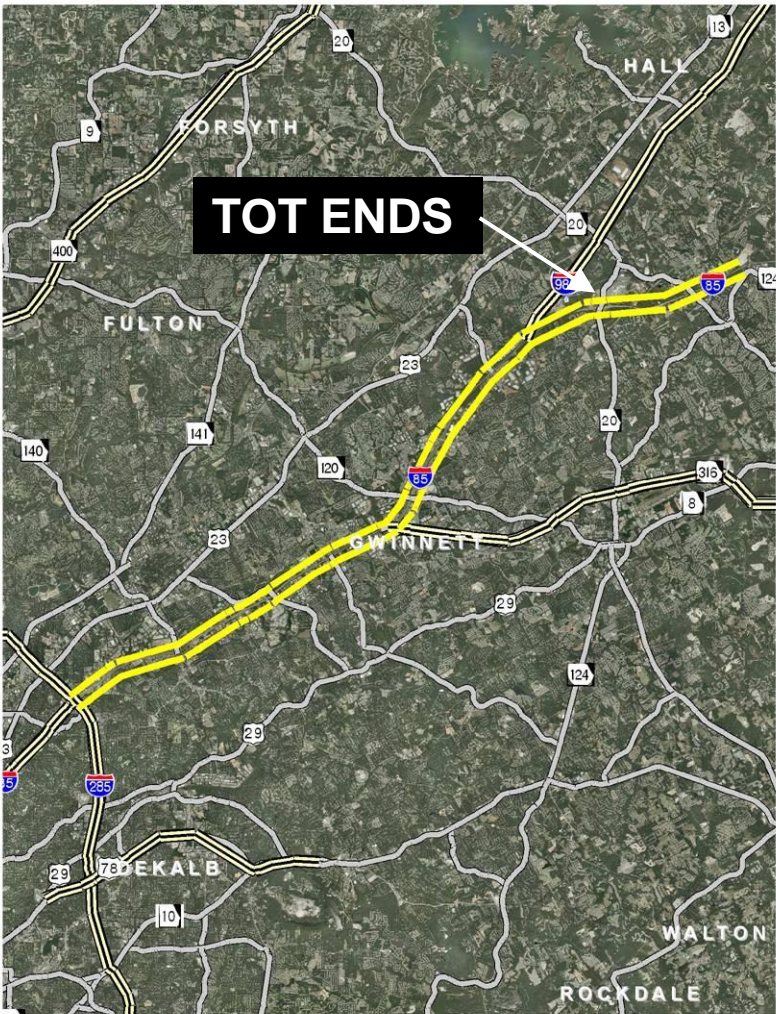
**Investment Policy**

**Distance ≈ 30 Miles**





# I-85 North Corridor – Max Revenue Forecast



Investment Policy

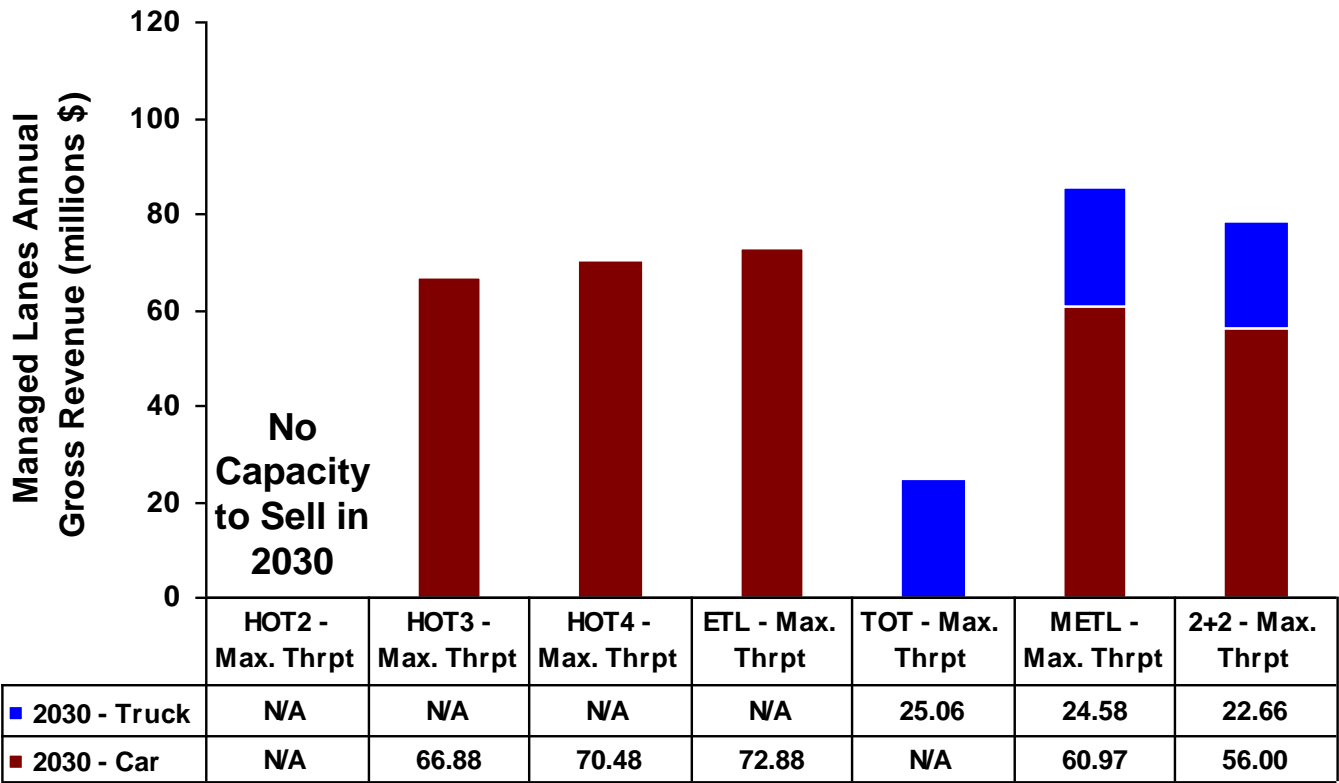
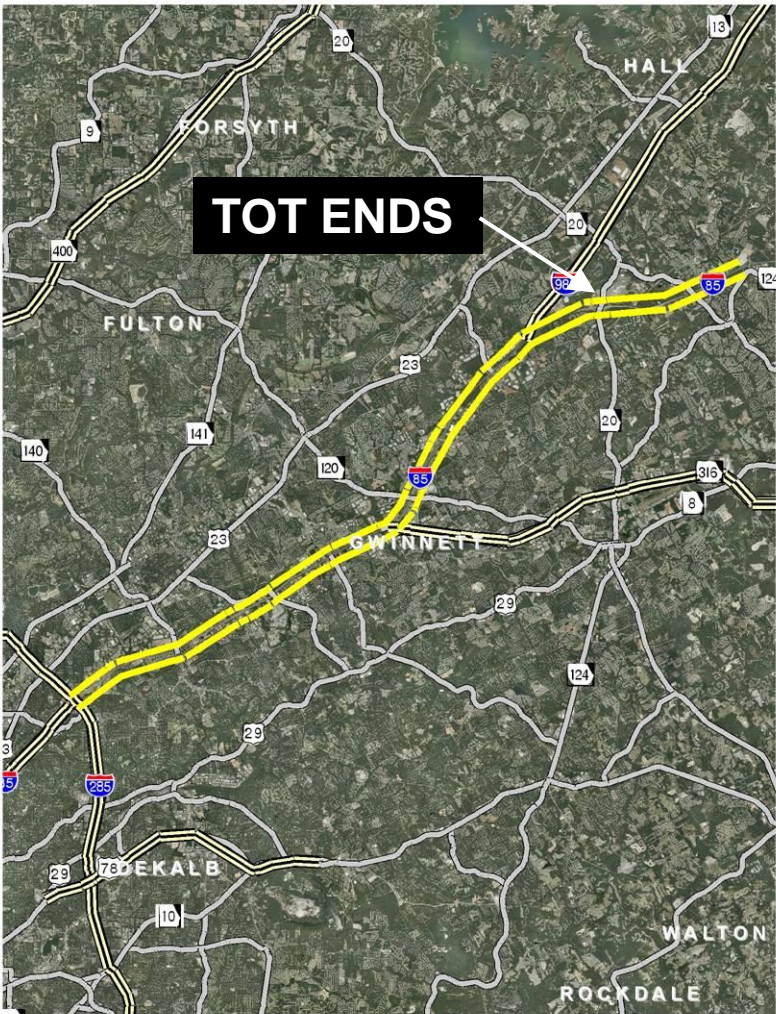
Distance ≈ 32 Miles







# I-85 North Corridor – Max Throughput Forecast



Investment Policy

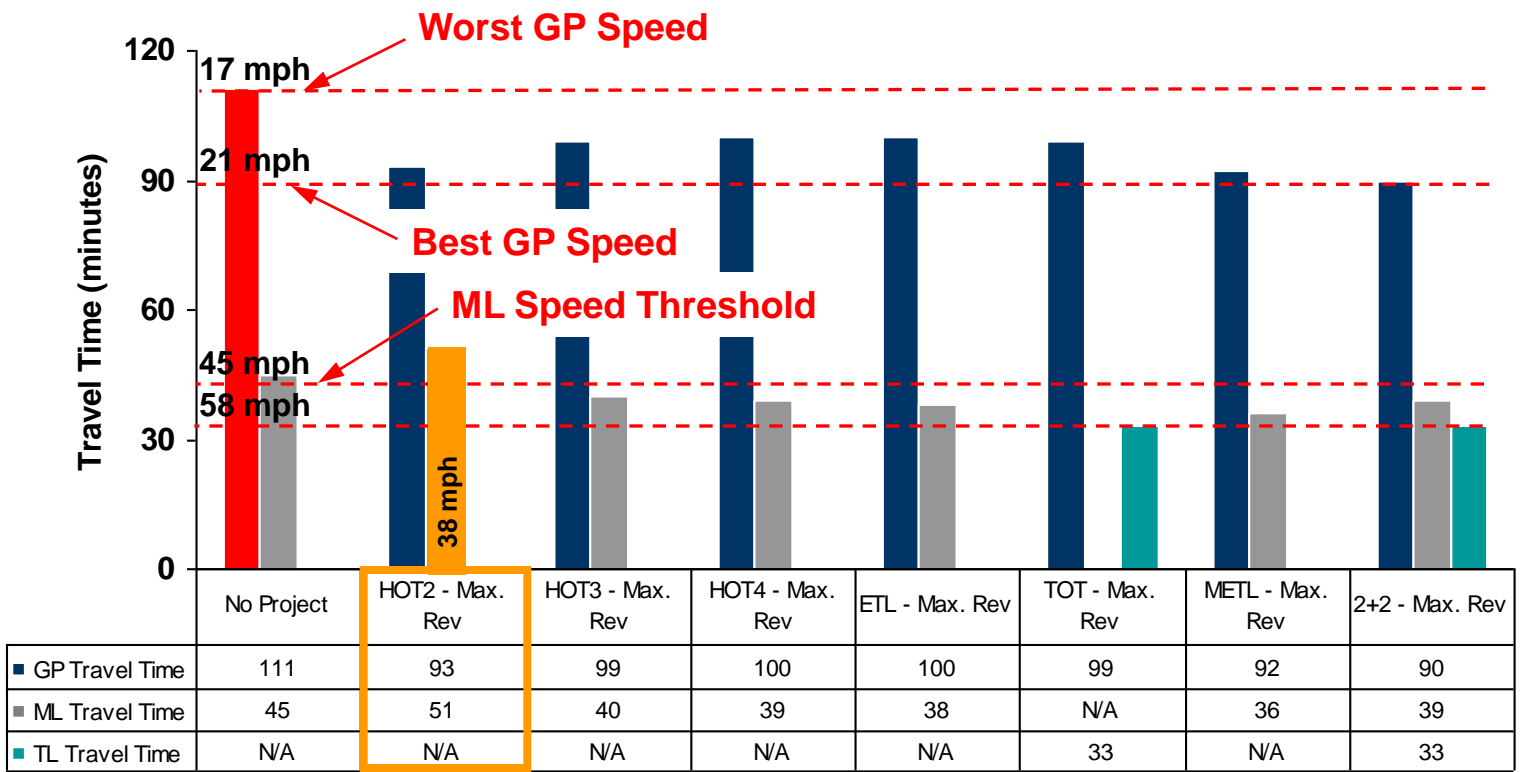
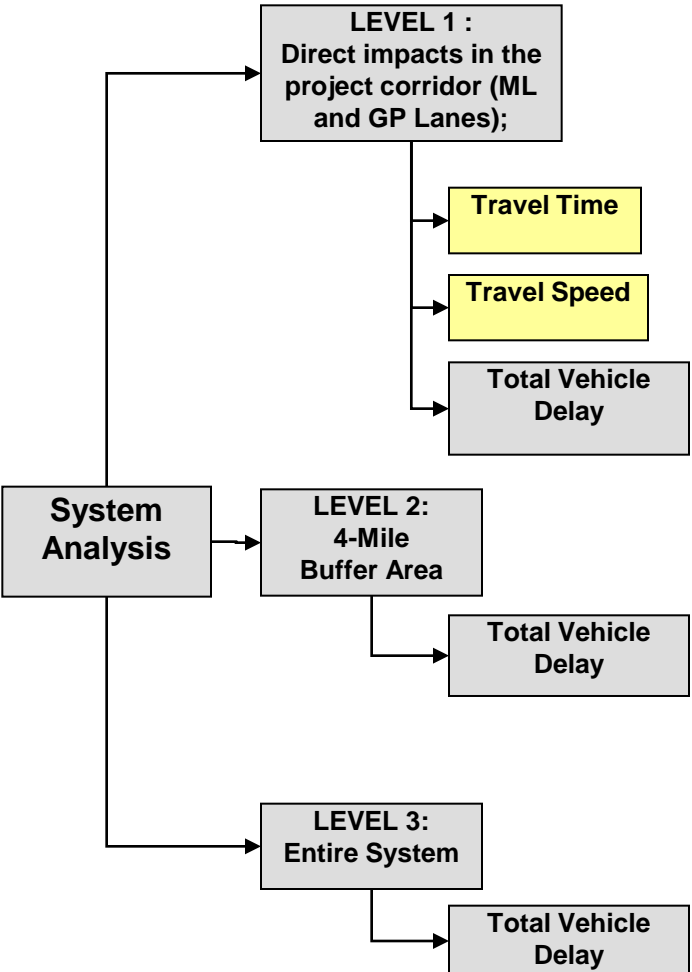
Distance ≈ 32 Miles





# I-85 North Corridor

## – Transportation User Benefits (2030 Max Revenue)



Investment Policy

- Distance ≈ 32 Miles
- GP Travel Speed: 17 - 24 mph
- ML Travel Speed: 45 - 53 mph
- TL Travel Speed: 50 - 58 mph

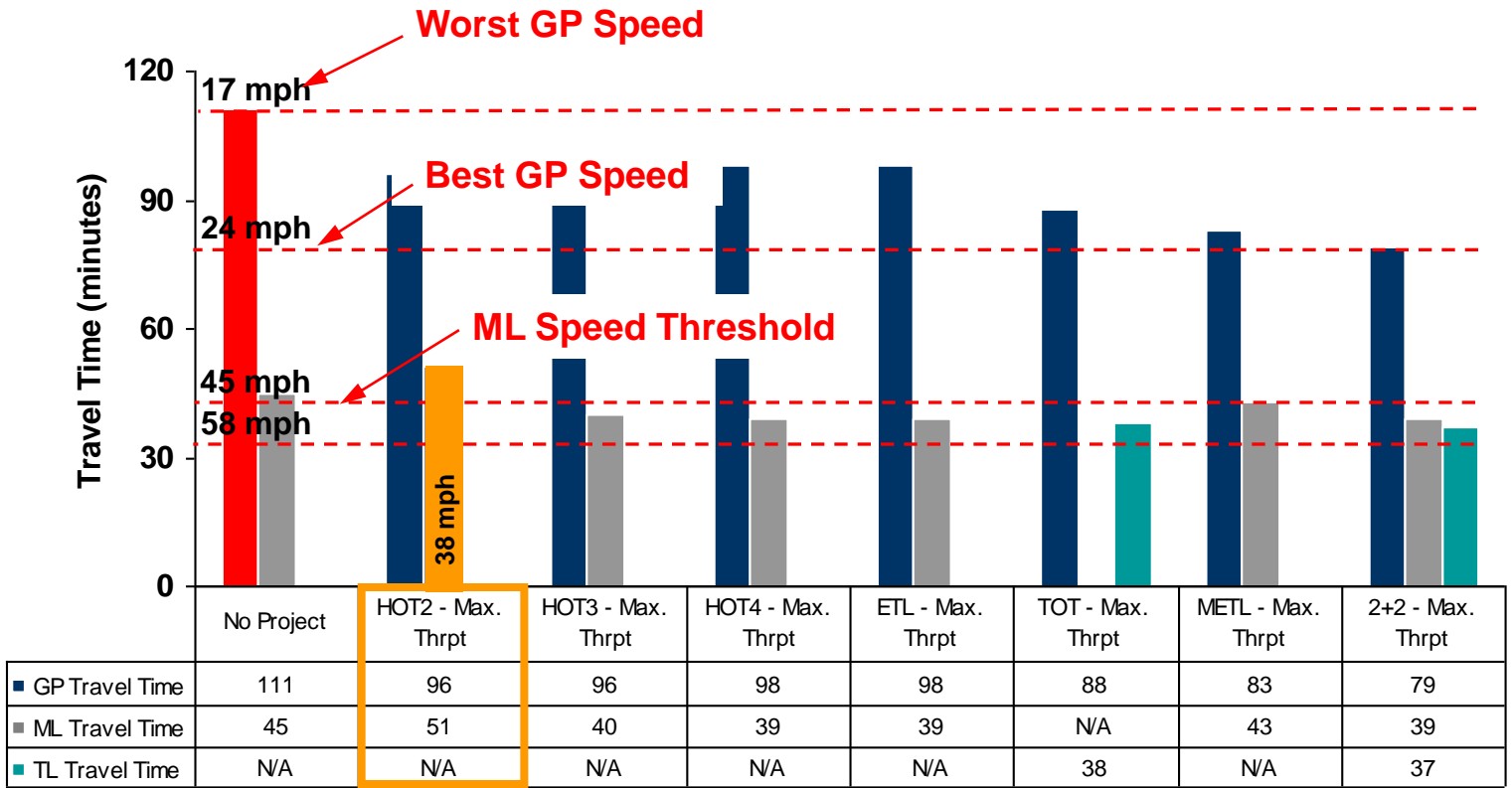
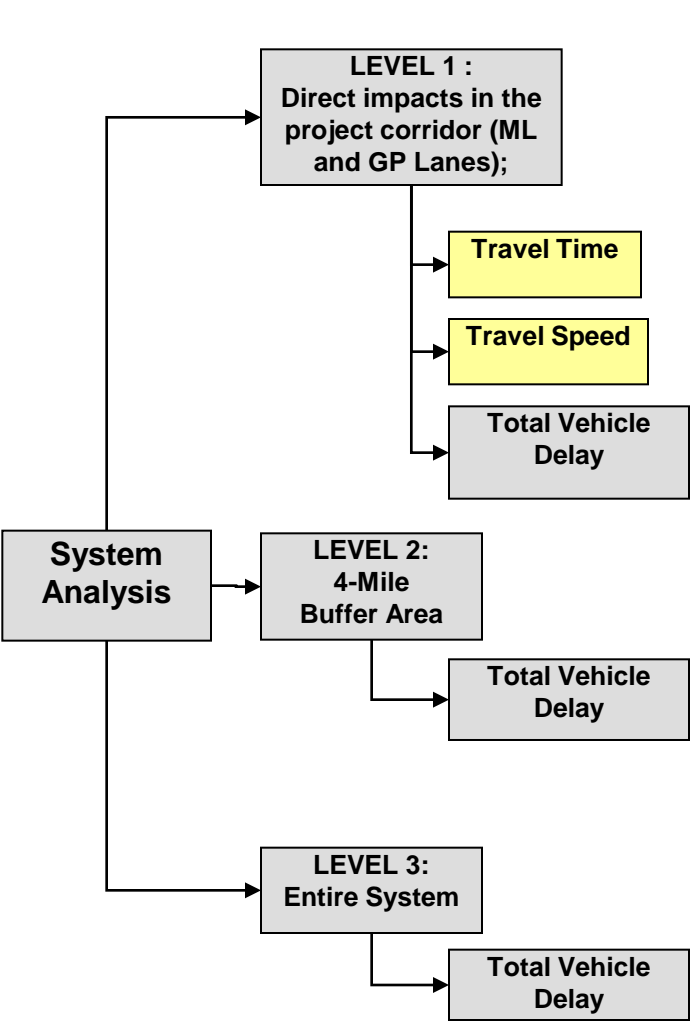






# I-85 North Corridor

## – Transportation User Benefits (2030 Max Throughput)



Investment Policy

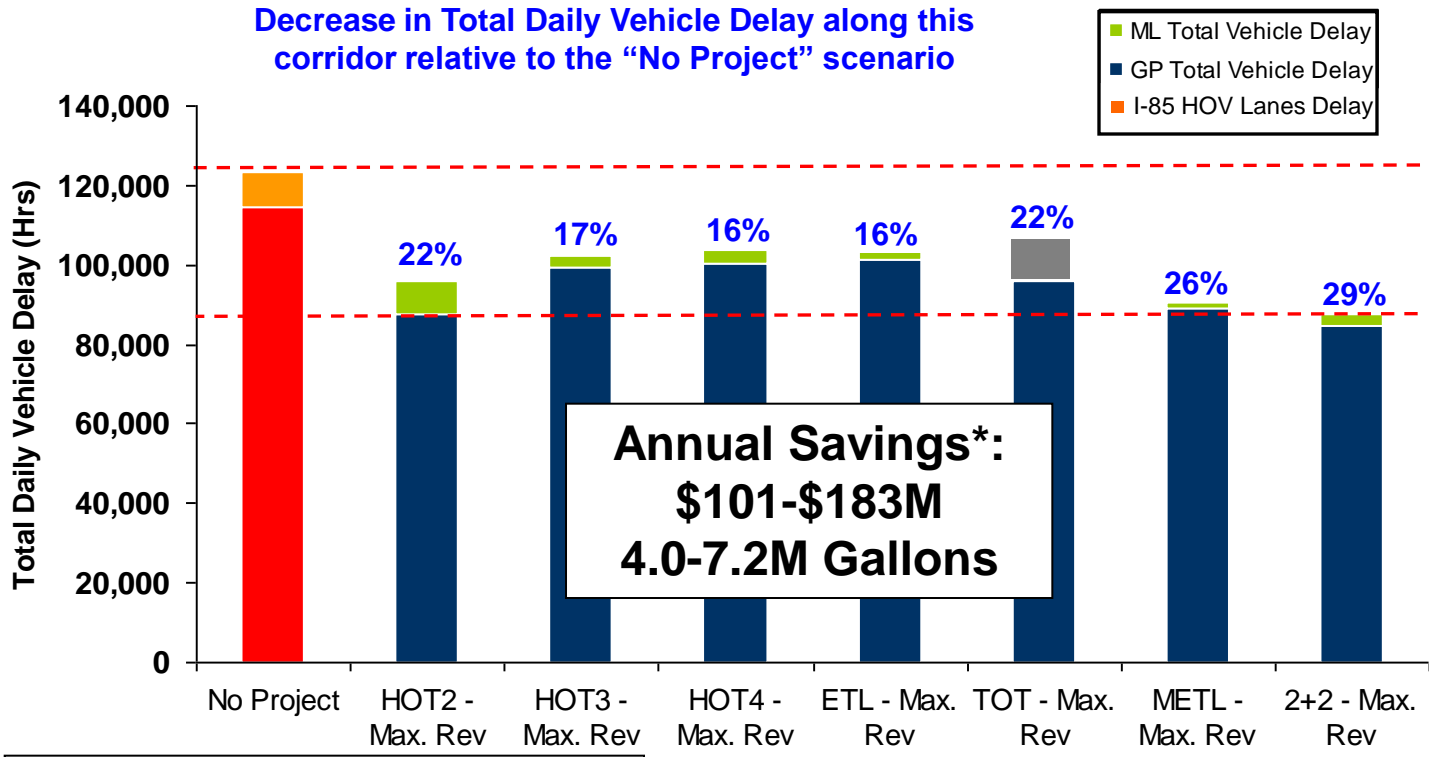
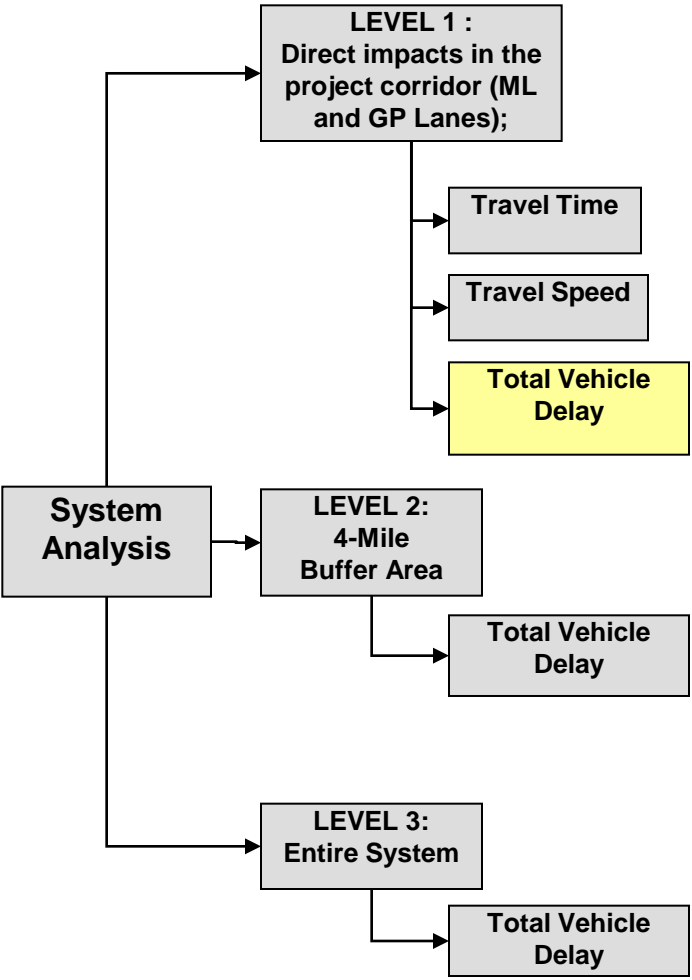
- Distance ≈ 32 Miles
- GP Travel Speed: 17 - 24 mph
- ML Travel Speed: 45 - 53 mph
- TL Travel Speed: 50 - 58 mph





# I-85 North Corridor

## – Transportation User Benefits (2030 Max Revenue)



**Annual Savings\*:**  
**\$101-\$183M**  
**4.0-7.2M Gallons**

\*Potential range of savings realized in this corridor, in year 2030, if ML are implemented. Numbers derived using Texas Transportation Institute assumptions of \$17.20/hr and 0.68 gallons of fuel/hr. Low end of range associated with TOT Maximum Revenue policy and high end of range associated with 2+2 Maximum Throughput policy.

Investment Policy

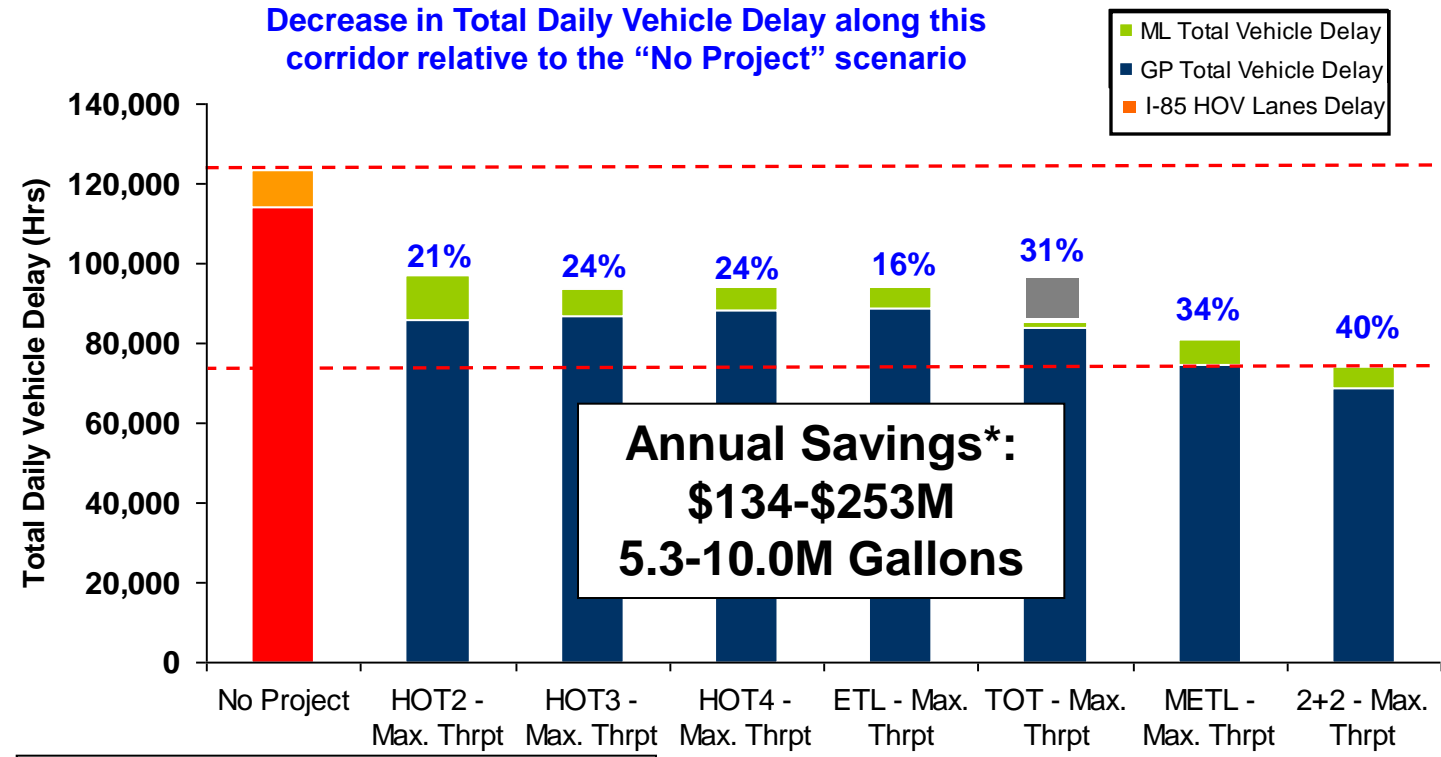
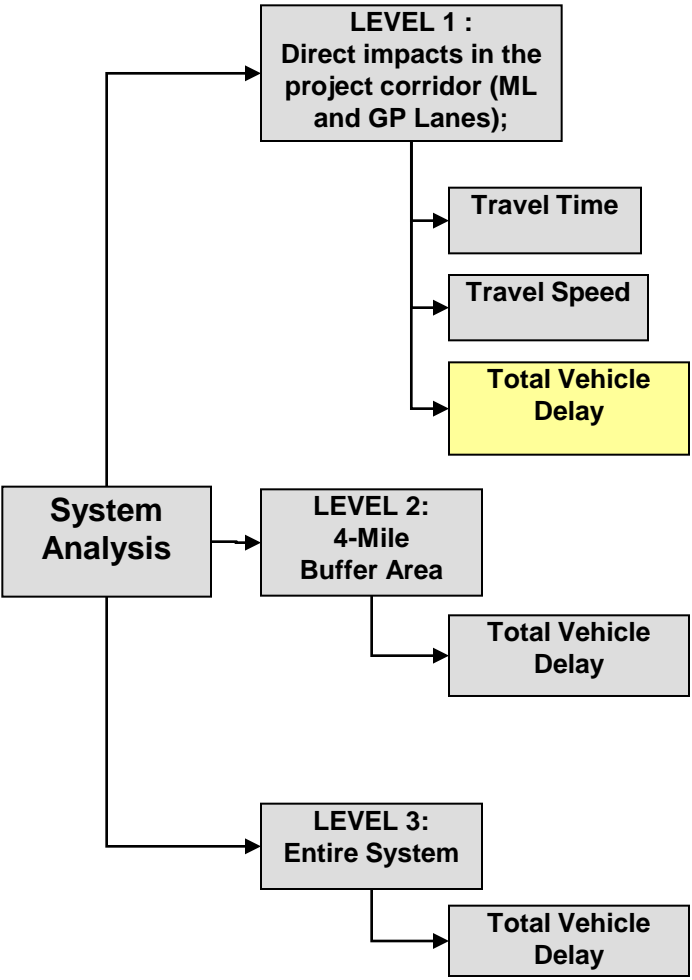
Distance ≈ 32 Miles





# I-85 North Corridor

## – Transportation User Benefits (2030 Max Throughput)



**Annual Savings\*:**  
**\$134-\$253M**  
**5.3-10.0M Gallons**

\*Potential range of savings realized in this corridor, in year 2030, if ML are implemented. Numbers derived using Texas Transportation Institute assumptions of \$17.20/hr and 0.68 gallons of fuel/hr. Low end of range associated with TOT Maximum Revenue policy and high end of range associated with 2+2 Maximum Throughput policy.

Investment Policy

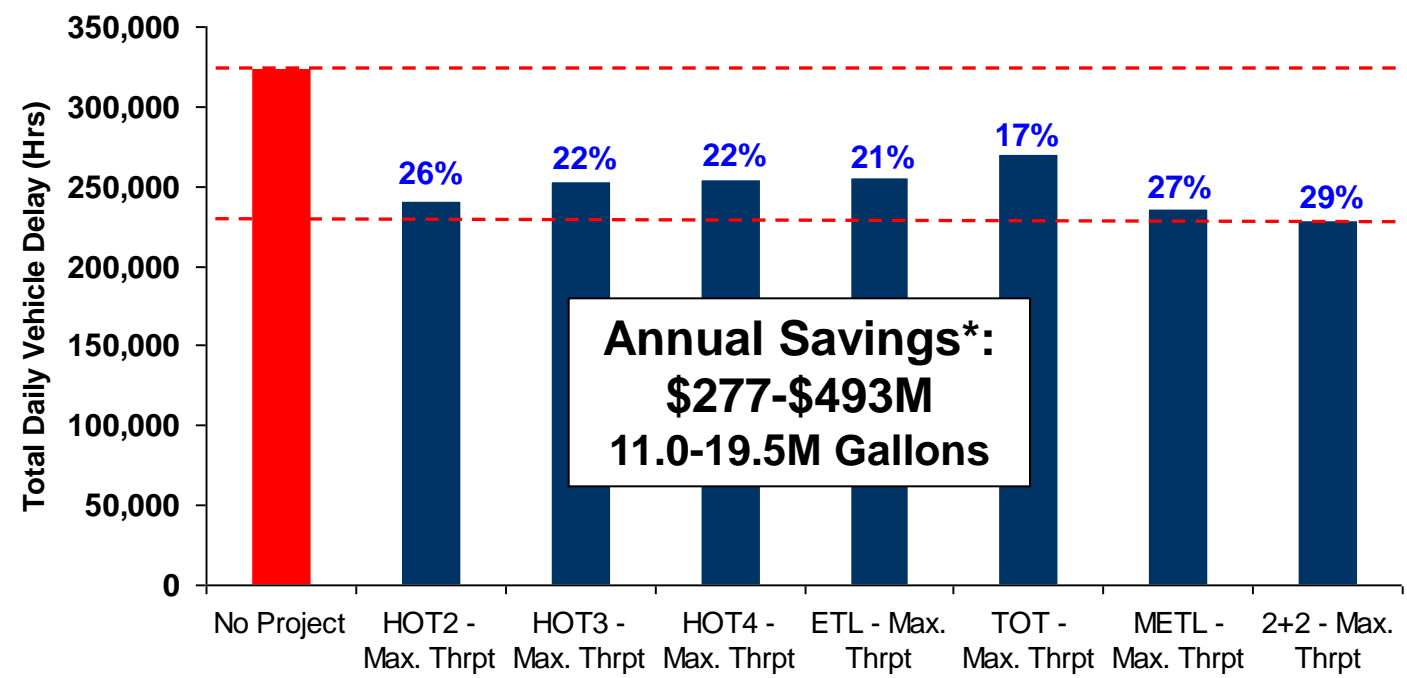
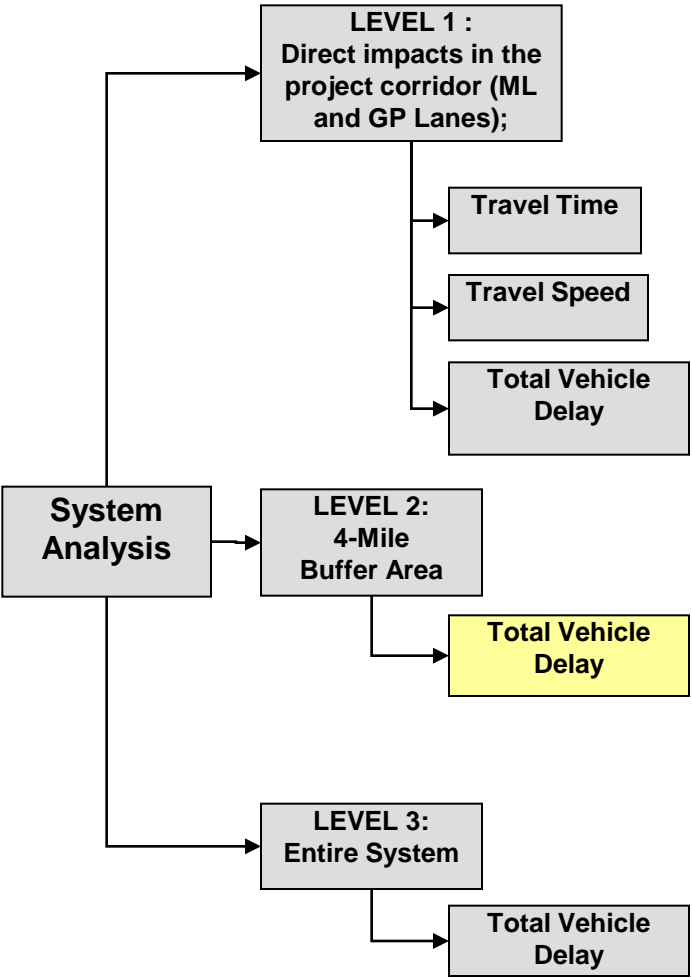
Distance ≈ 32 Miles





# I-85 North Corridor

## – Transportation User Benefits (2030 Max Throughput)



**Annual Savings\*:**  
**\$277-\$493M**  
**11.0-19.5M Gallons**

\*Potential range of savings realized in this area, in year 2030, if ML are implemented. Numbers derived using Texas Transportation Institute assumptions of \$17.20/hr and 0.68 gallons of fuel/hr. Low end of range associated with TOT Maximum Revenue policy and high end of range associated with 2+2 Maximum Throughput policy.

Investment Policy

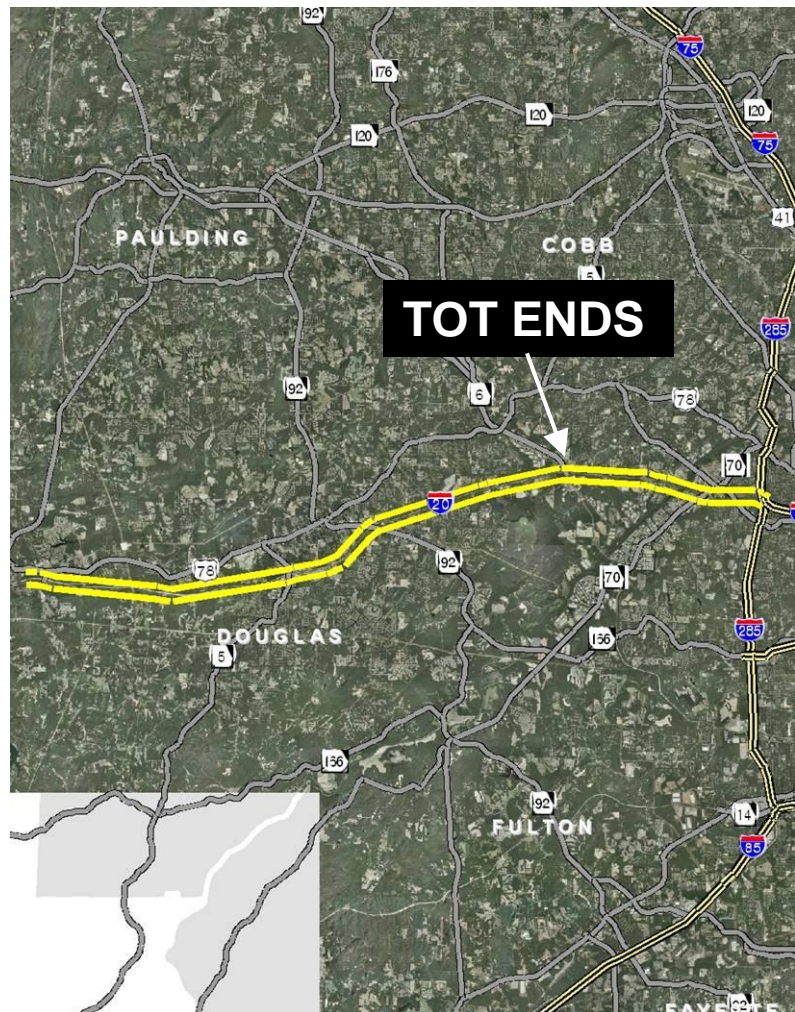
Distance ≈ 32 Miles



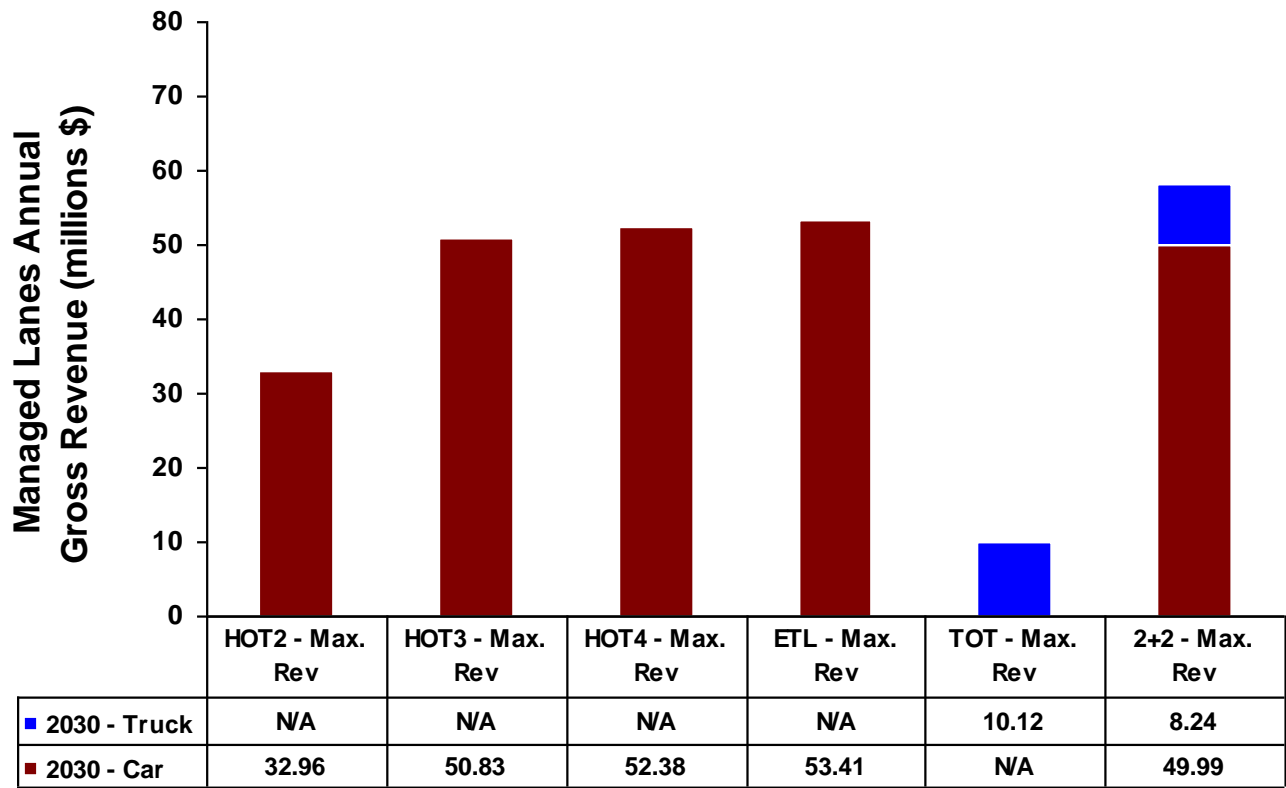




# I-20 West Corridor – Max Revenue Forecast



TOT is provided only for the first segment: I-285 to Thornton Road



Investment Policy

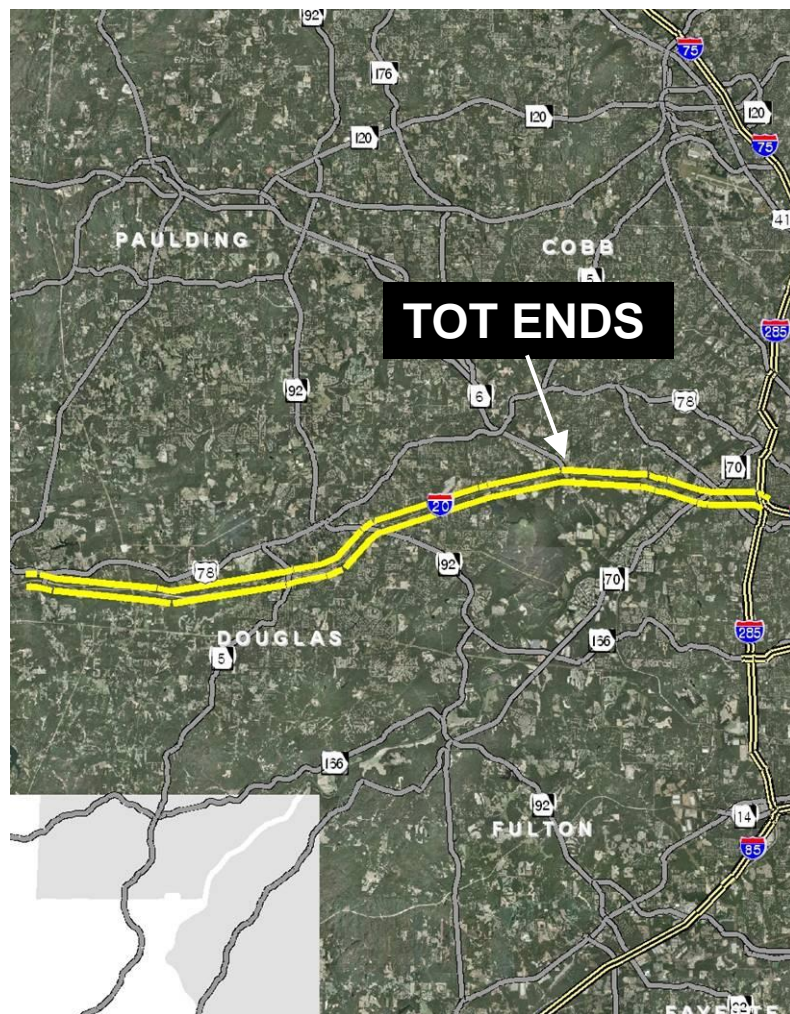
ETL Distance ≈ 24 Miles

TOT Distance ≈ 7 Miles

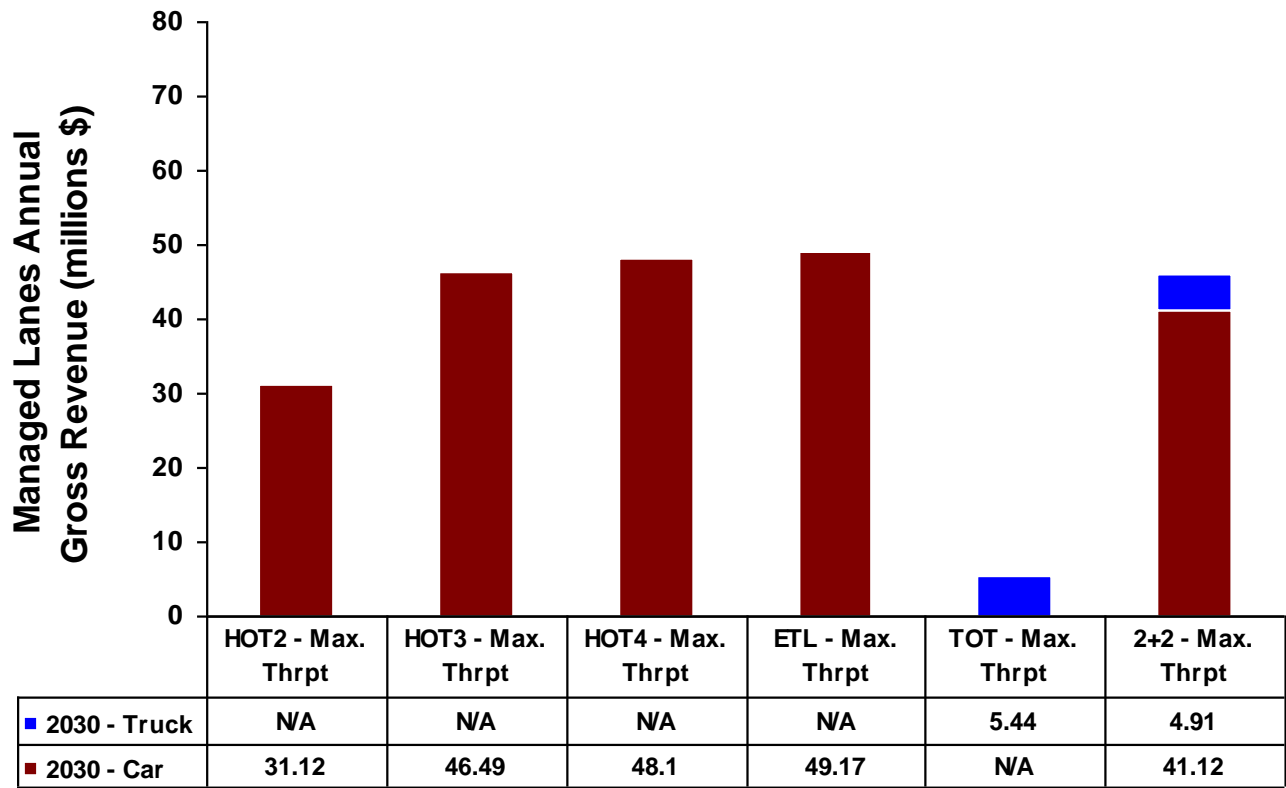




# I-20 West Corridor –Max Throughput Forecast



TOT is provided only for the first segment: I-285 to Thornton Road



Investment Policy

ETL Distance ≈ 24 Miles

TOT Distance ≈ 7 Miles

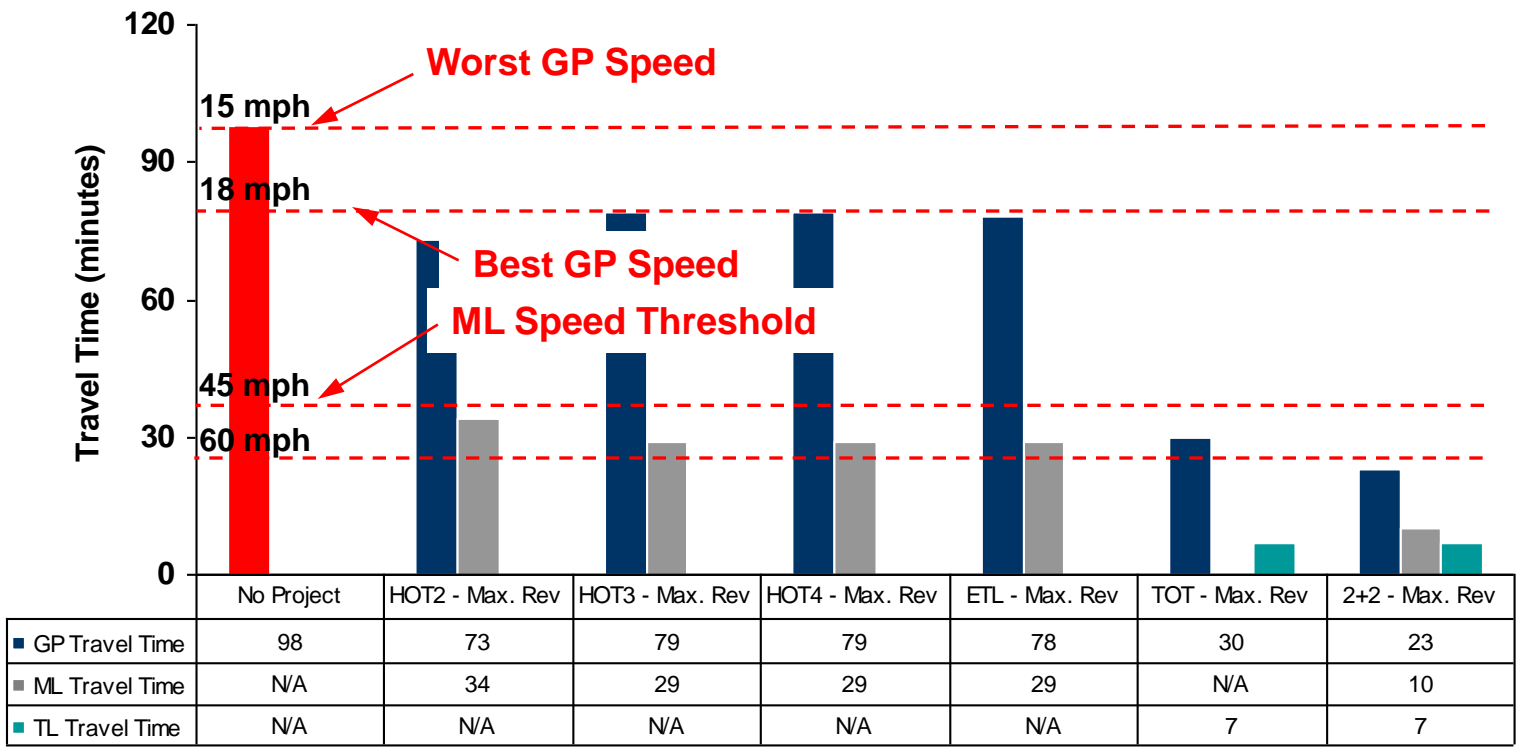
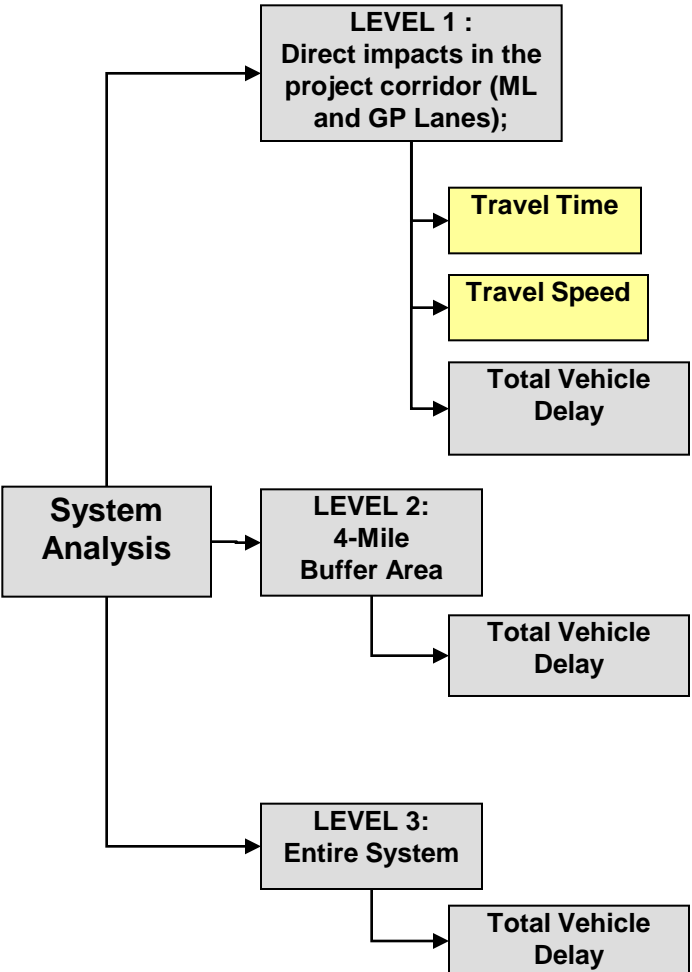






# I-20 West Corridor

## – Transportation User Benefits (2030 Max Revenue)



Investment Policy

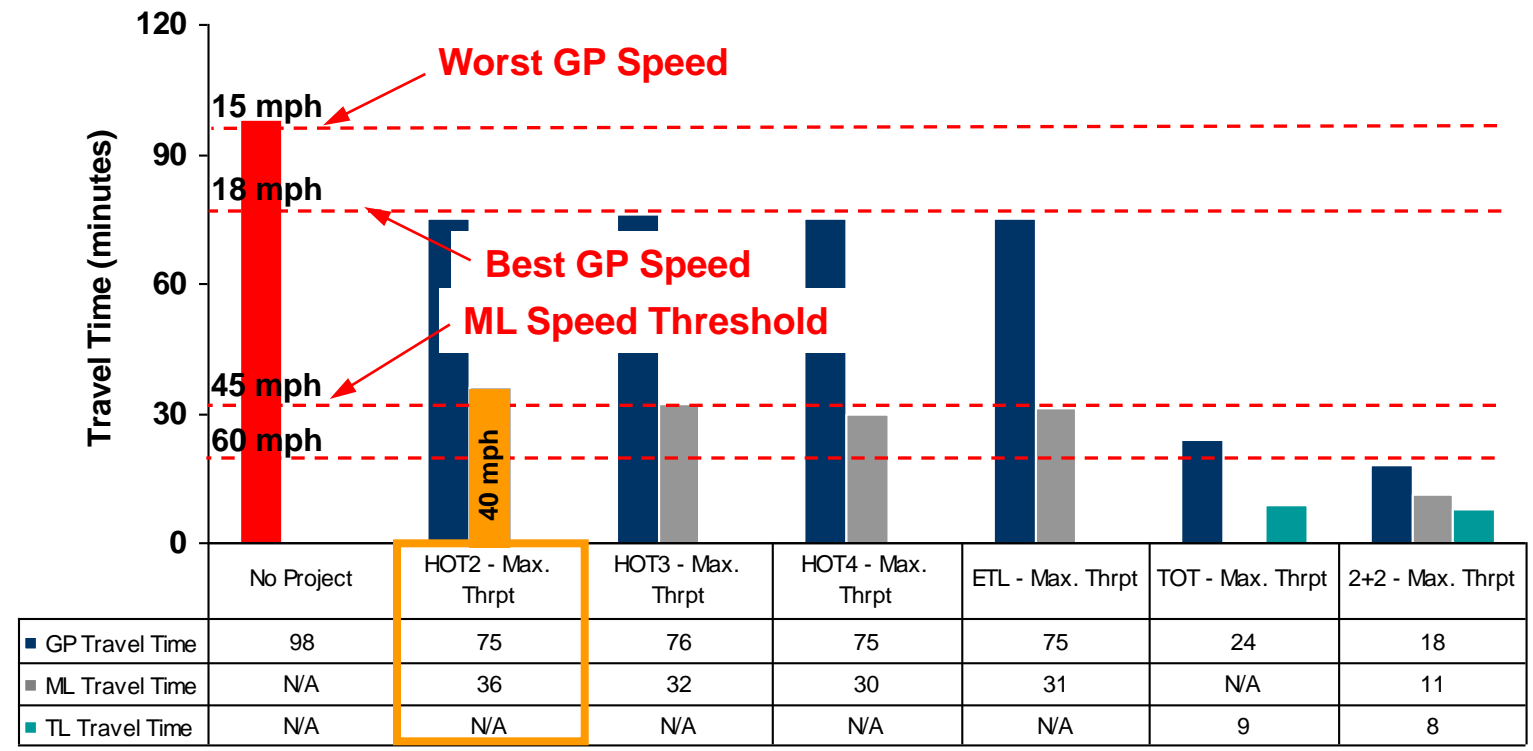
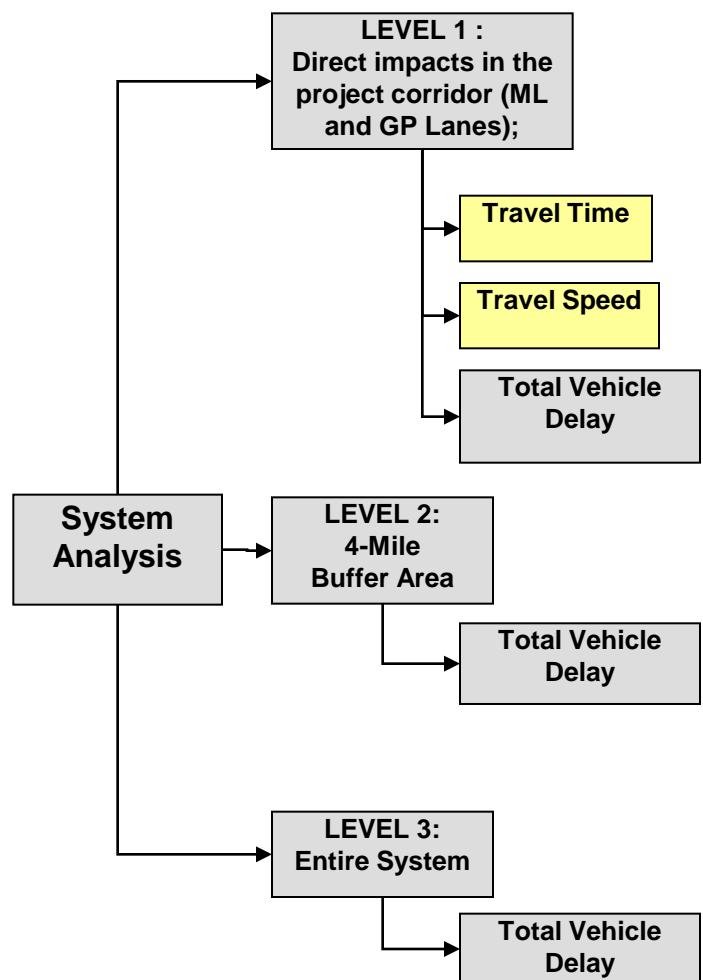
- ETL Distance ≈ 24 Miles
- TOT Distance ≈ 7 Miles
- GP Travel Speed: 14 - 23 mph
- ETL Travel Speed: 45 - 50 mph
- TOT Travel Speed: 47 - 60 mph





# I-20 West Corridor

## – Transportation User Benefits (2030 Max Throughput)



Investment Policy

- ETL Distance ≈ 24 Miles
- TOT Distance ≈ 7 Miles
- GP Travel Speed: 14 - 23 mph
- ETL Travel Speed: 45 - 50 mph
- TOT Travel Speed: 47 - 60 mph

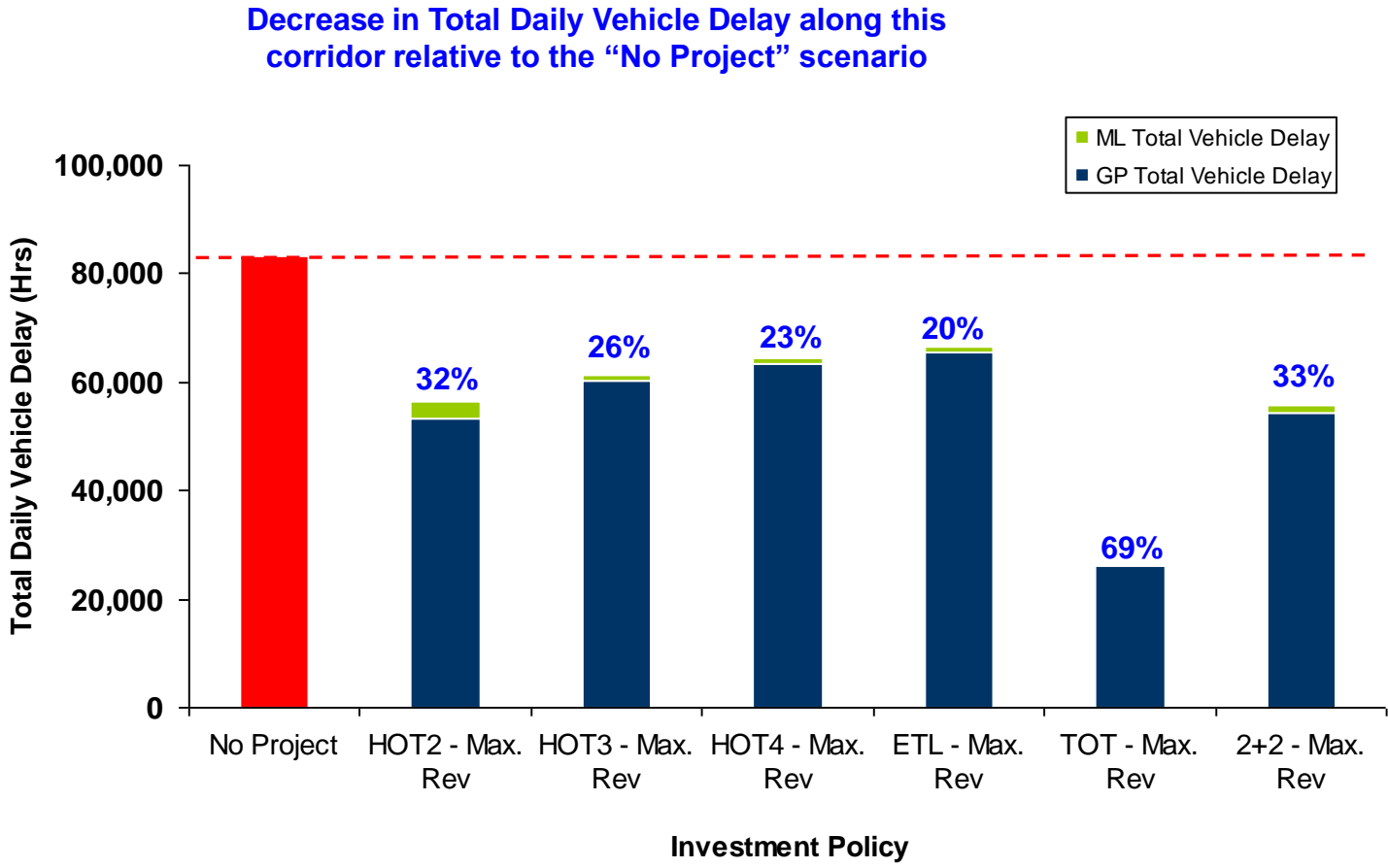
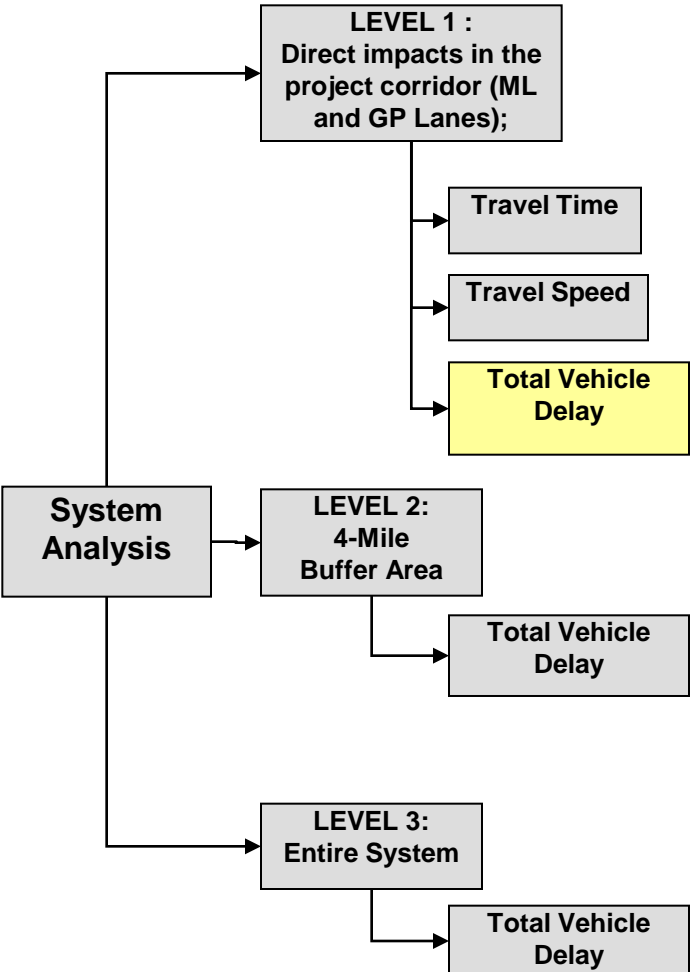






# I-20 West Corridor

## – Transportation User Benefits (2030 Max Revenue)



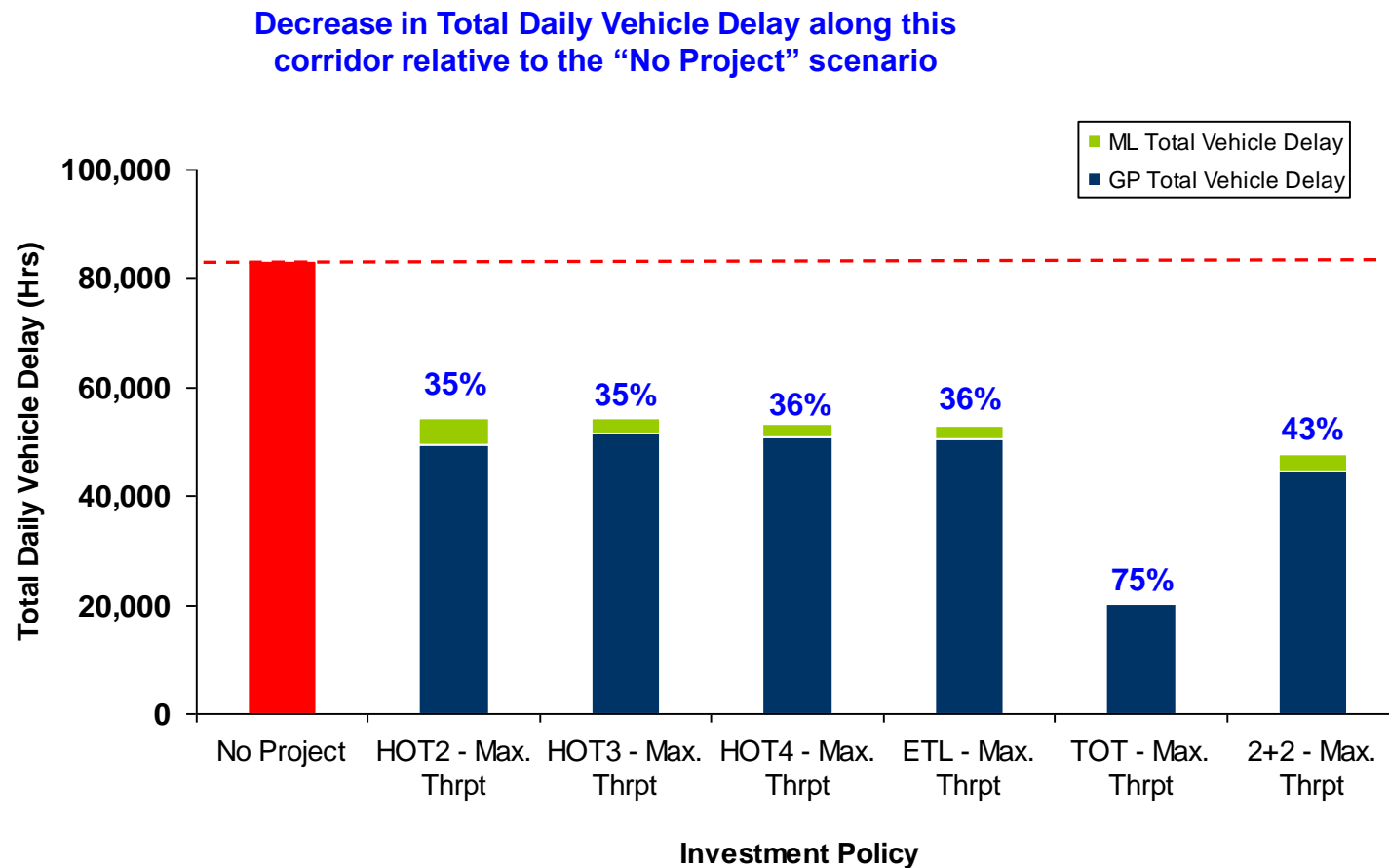
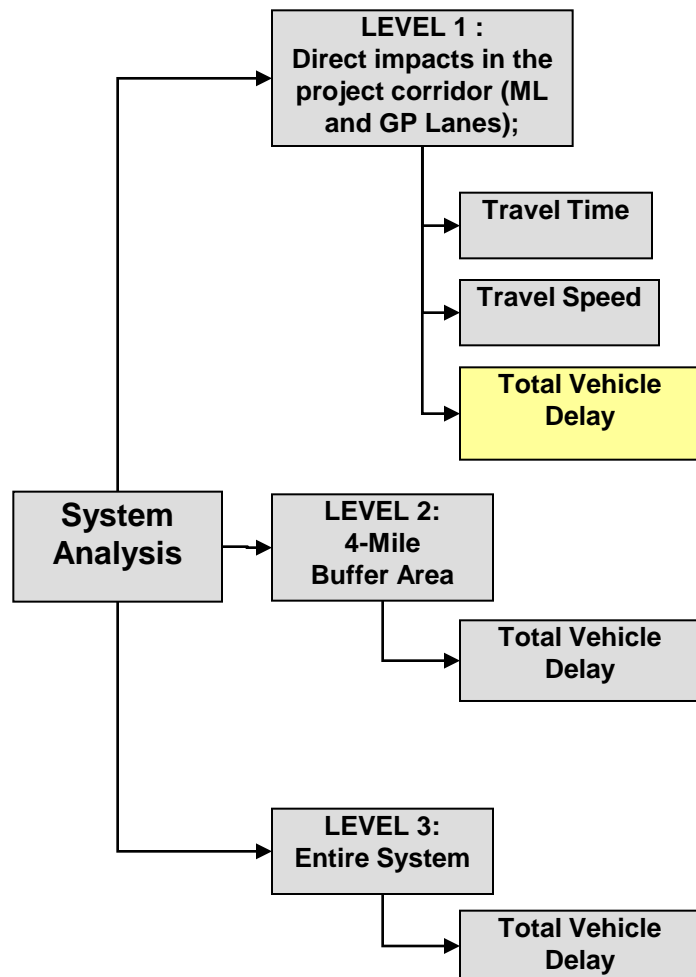
ETL Distance ≈ 24 Miles  
TOT Distance ≈ 7 Miles





# I-20 West Corridor

## – Transportation User Benefits (2030 Max Throughput)



ETL Distance ≈ 24 Miles

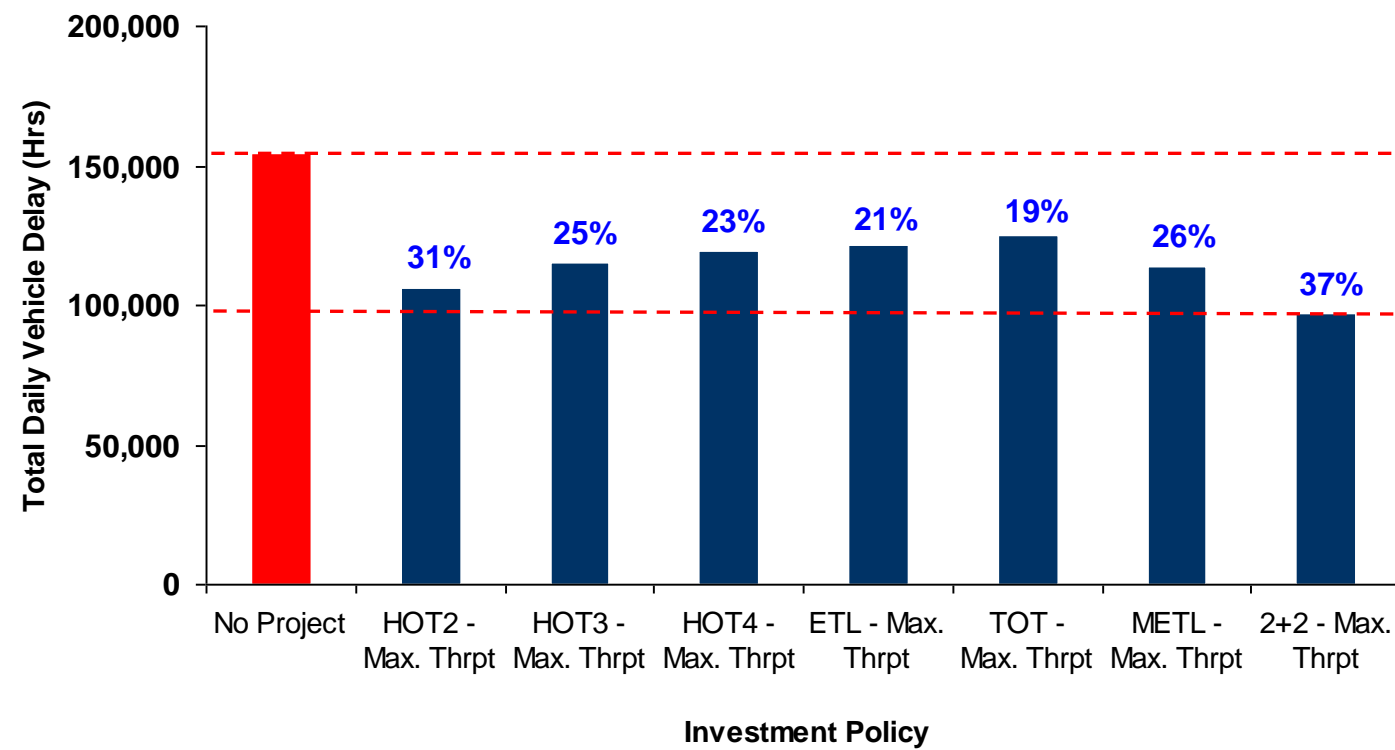
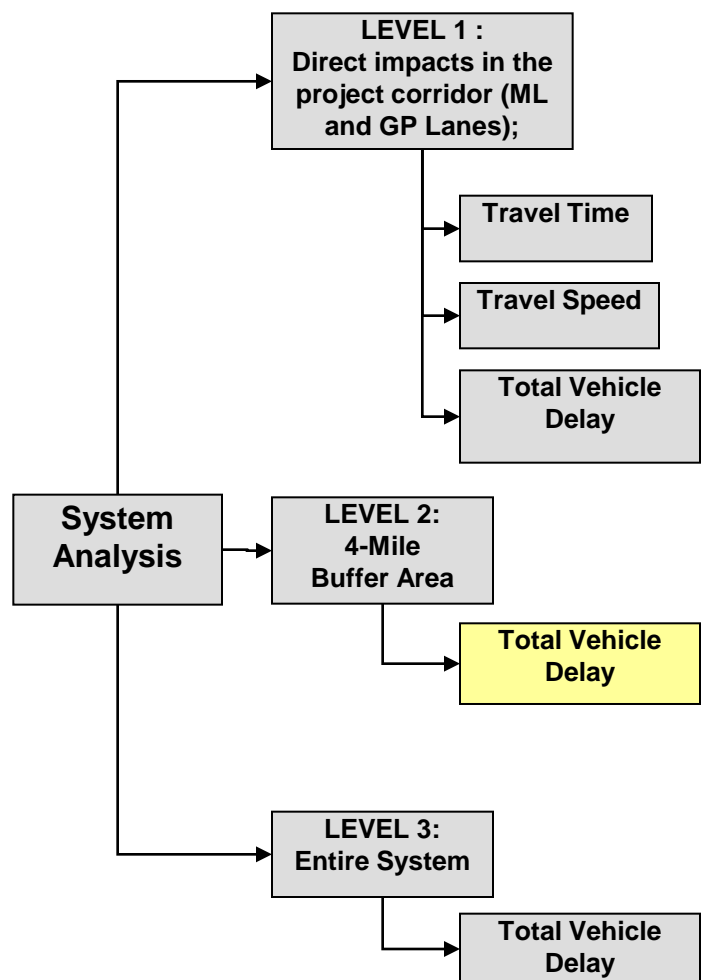
TOT Distance ≈ 7 Miles





# I-20 West Corridor

## – Transportation User Benefits (2030 Max Throughput)



ETL Distance ≈ 24 Miles  
TOT Distance ≈ 7 Miles



# Corridors without Truck Only Lane Recommendations

## ■ Investment Policy Scenarios

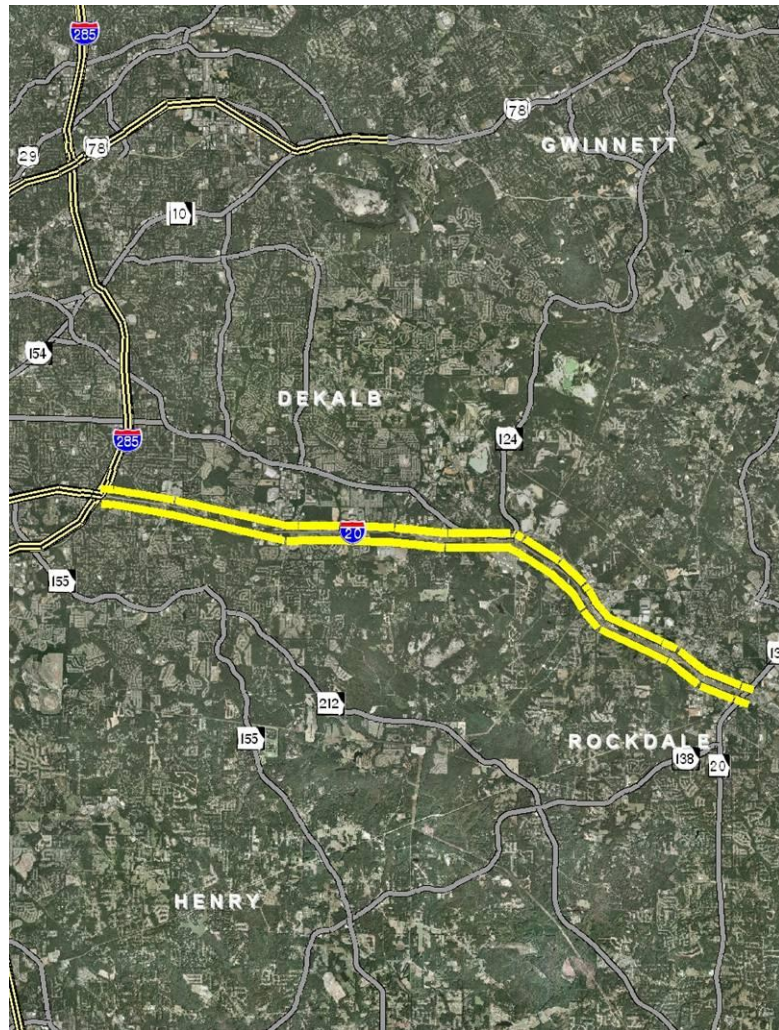
Lane Configuration	Investment Policy Scenarios	I-20 East Corridor	SR 400	I-575	Interstates Inside of I-285
2-Lane Each Direction	ETL	√-Results Review	√-Results Review	√-Results Review	√-Results Review
	TOT <sub>v</sub>	N/A	N/A	N/A	N/A
	HOT(HOT2+, HOT3+, HOT 4+)	√-Results Review	√-Results Review	√-Results Review	√-Results Review
3-Lane Each Direction	Mixed ETL	N/A	N/A	N/A	N/A
4-Lane Each Direction	ETL & TOT <sub>v</sub>	N/A	N/A	N/A	N/A



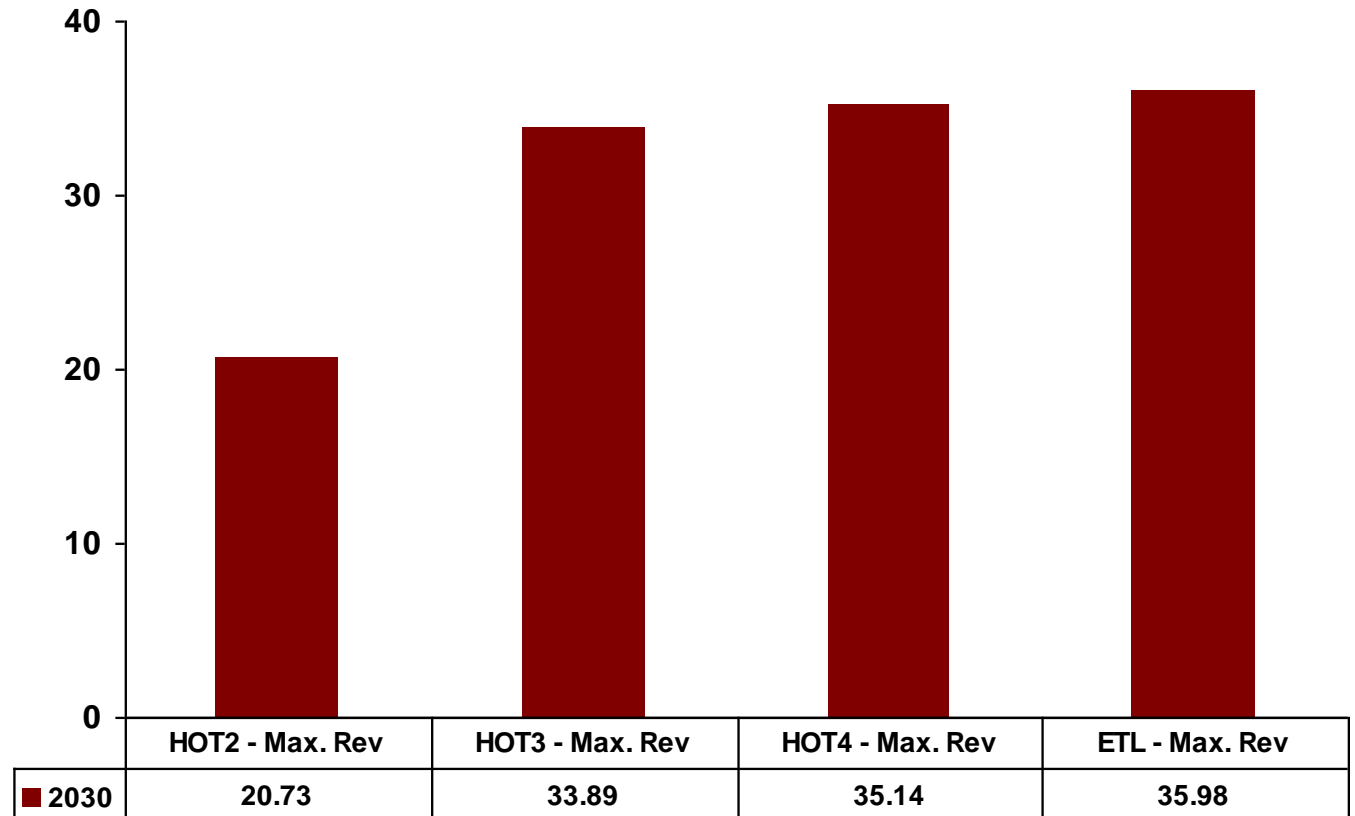




# I-20 East Segment – Max Revenue Forecast



Managed Lanes Annual  
Gross Revenue (millions \$)



Investment Policy

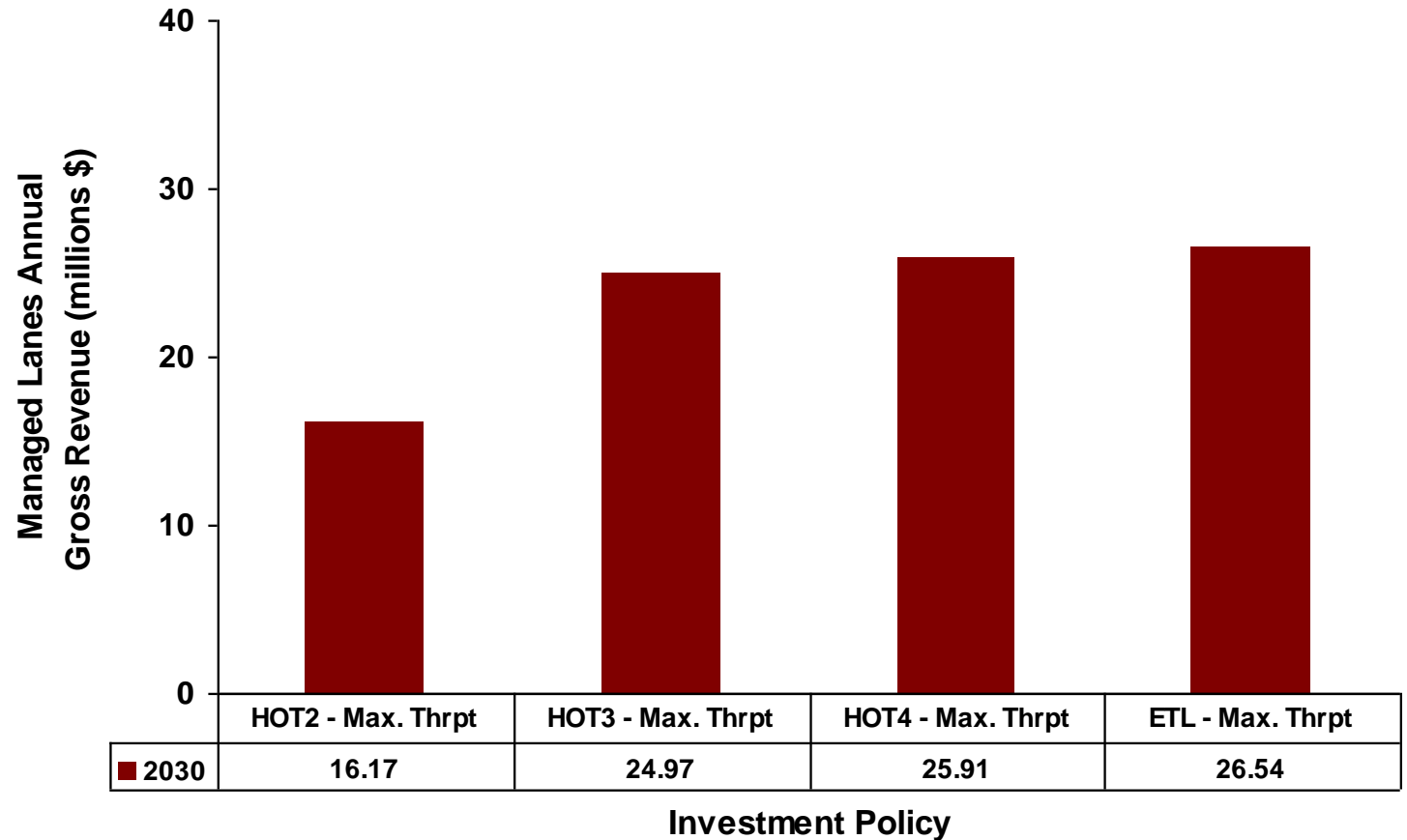
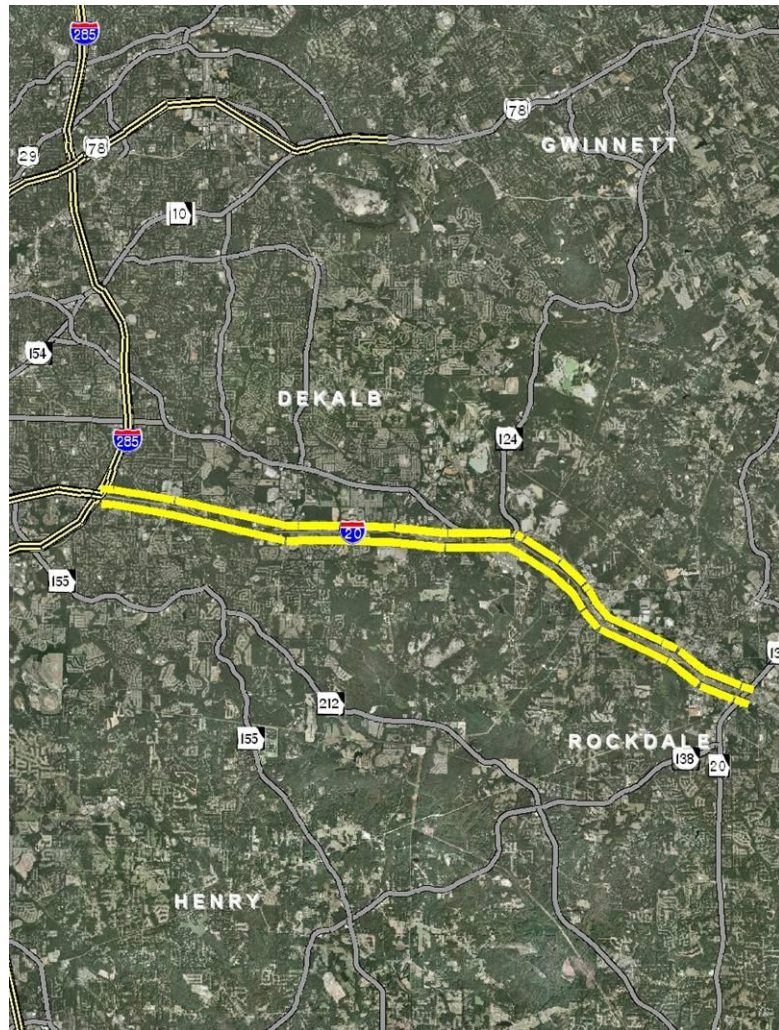
Distance ≈ 17 Miles

\* Toll Rates established with ETL policy were used for all HOT policies.





# I-20 East Segment – Max Throughput Forecast



Distance ≈ 17 Miles

\* Toll Rates established with ETL policy were used for all HOT policies.

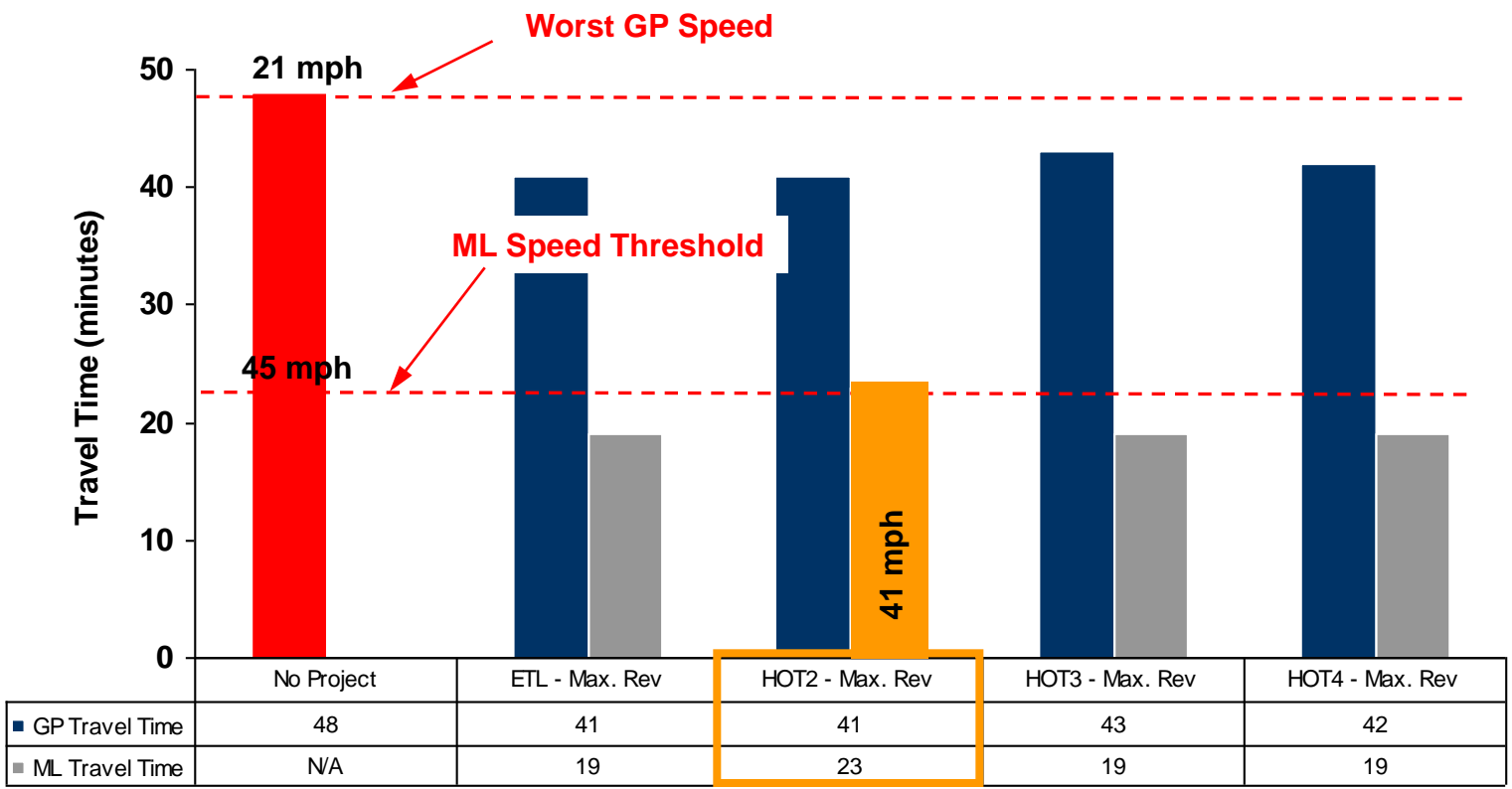
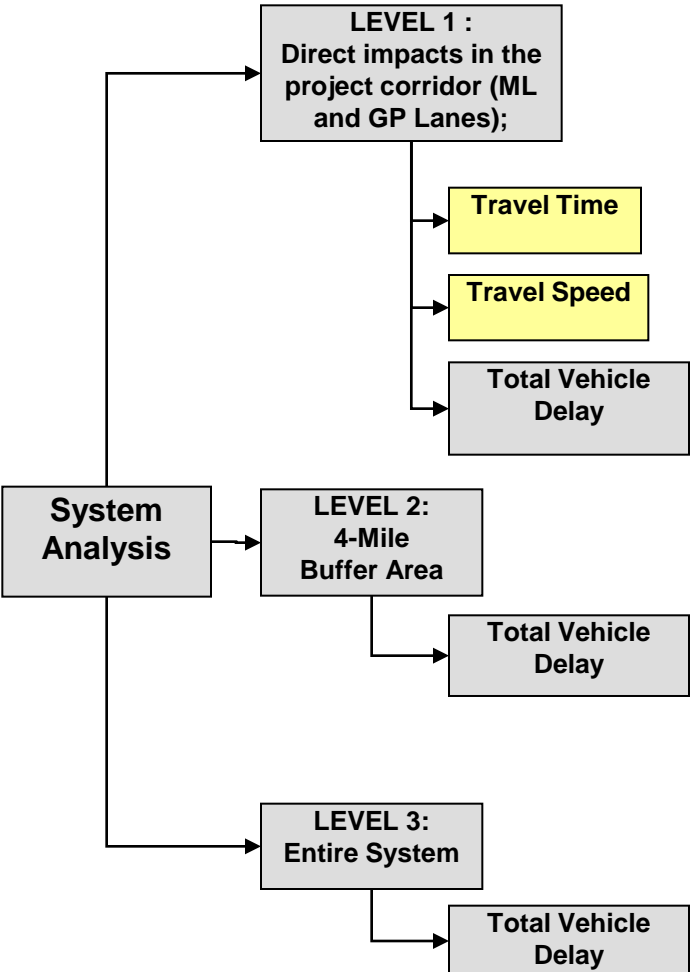






# I-20 East Segment

## – Transportation User Benefits (2030 Max Revenue)



Investment Policy

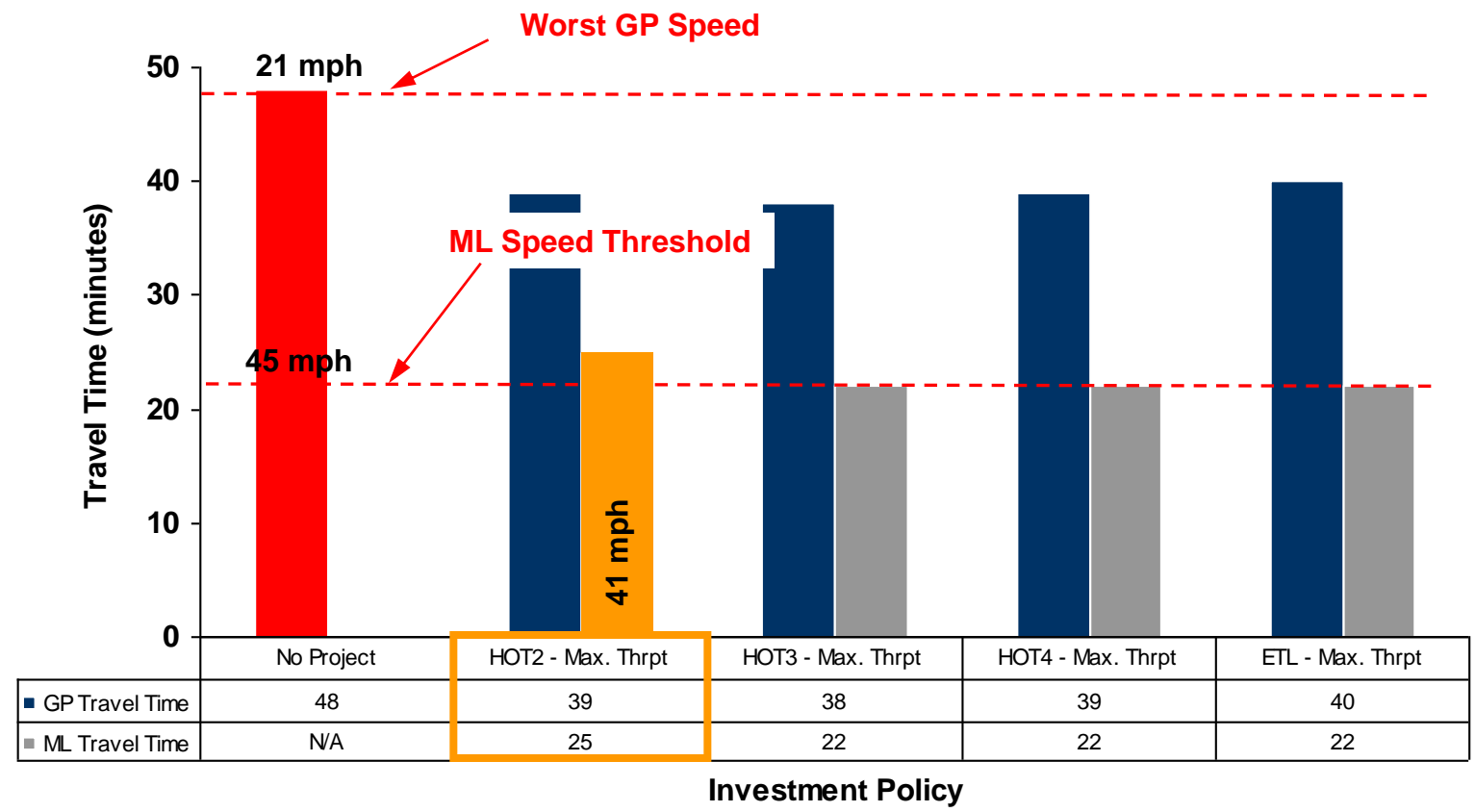
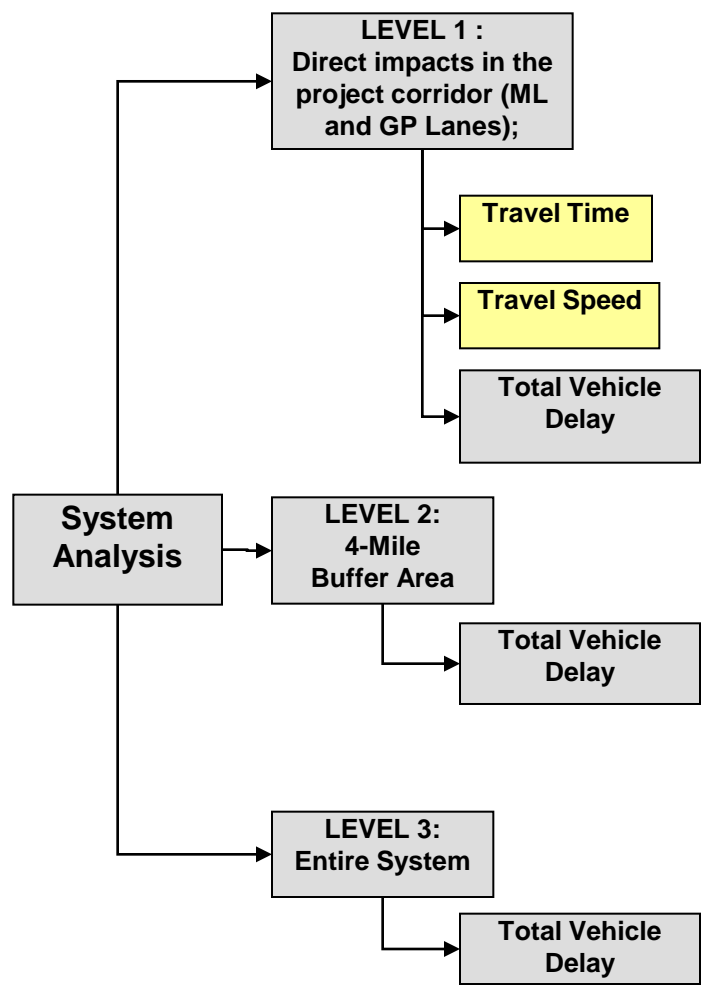
- Distance ≈ 17 Miles
- GP Travel Speed (No Project): 20 mph
- GP Travel Speed: 20 - 26 mph
- ML Travel Speed: 45 - 54 mph





# I-20 East Segment

## – Transportation User Benefits (2030 Max Throughput)



- Distance ≈ 17 Miles
- GP Travel Speed (No Project): 21 mph
- GP Travel Speed: 20 - 26 mph
- ML Travel Speed: 45 - 54 mph

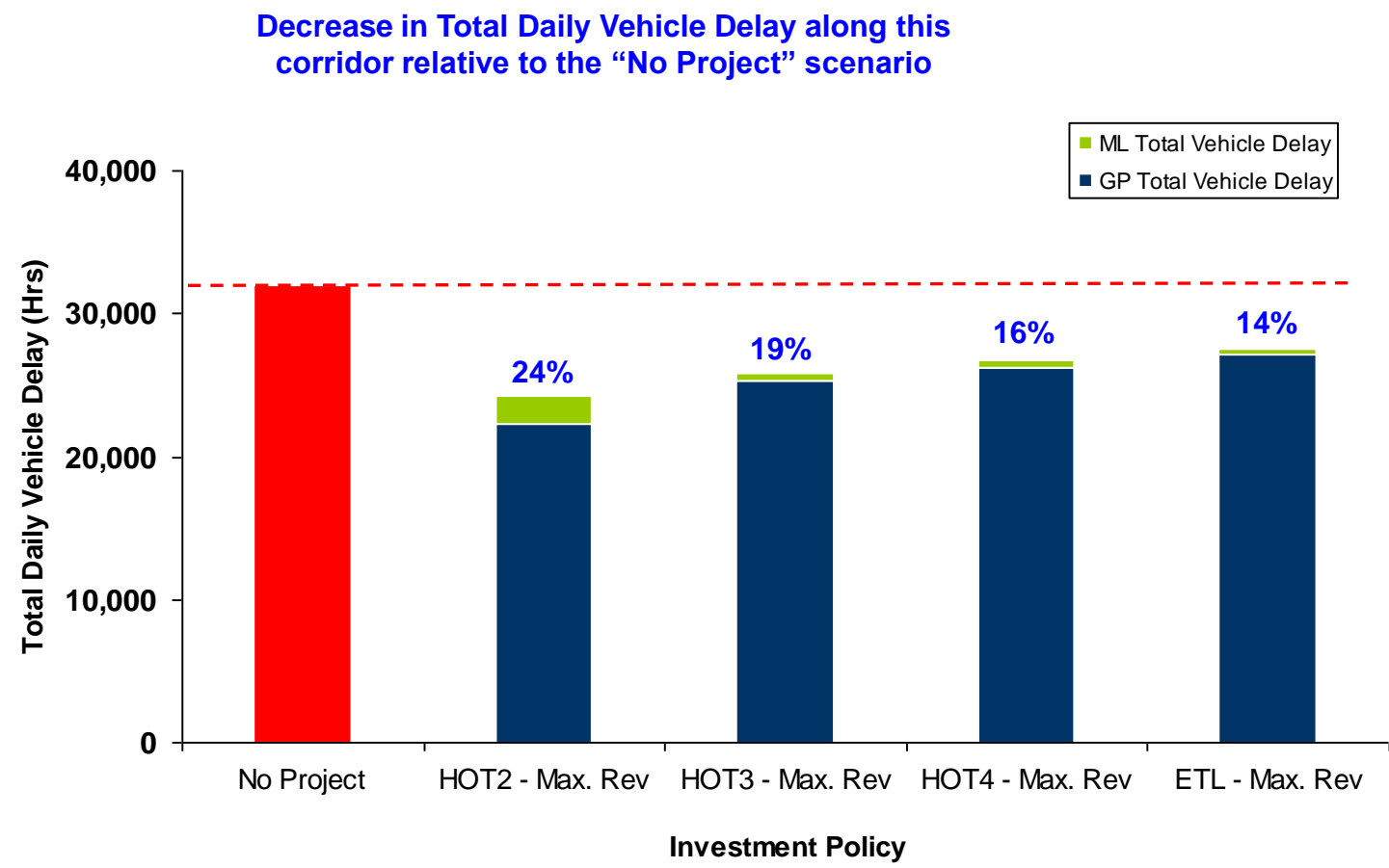
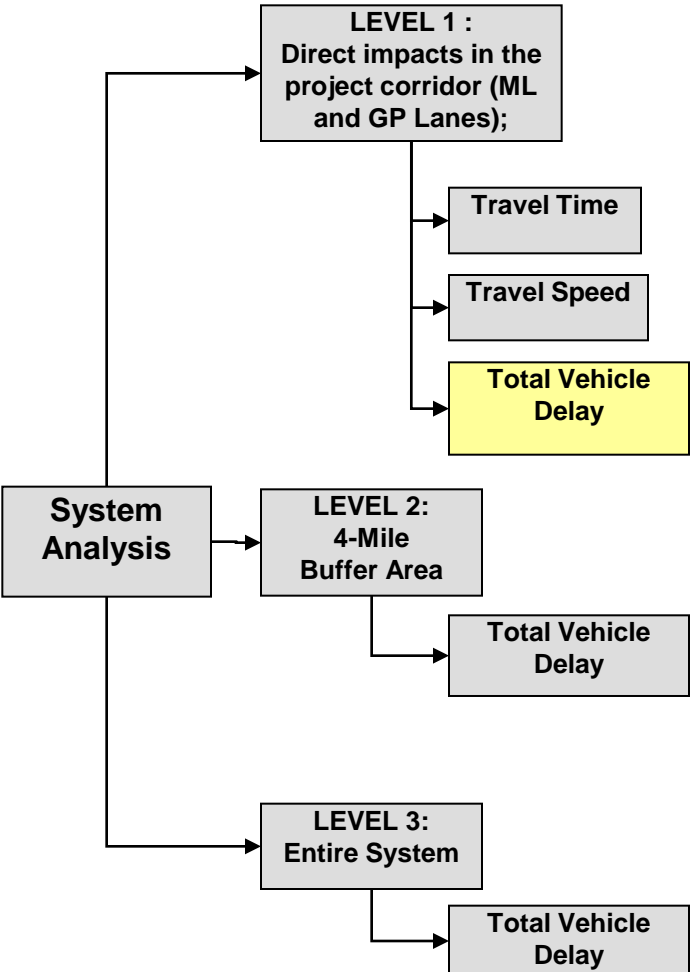






# I-20 East Corridor

## – Transportation User Benefits (2030 Max Revenue)



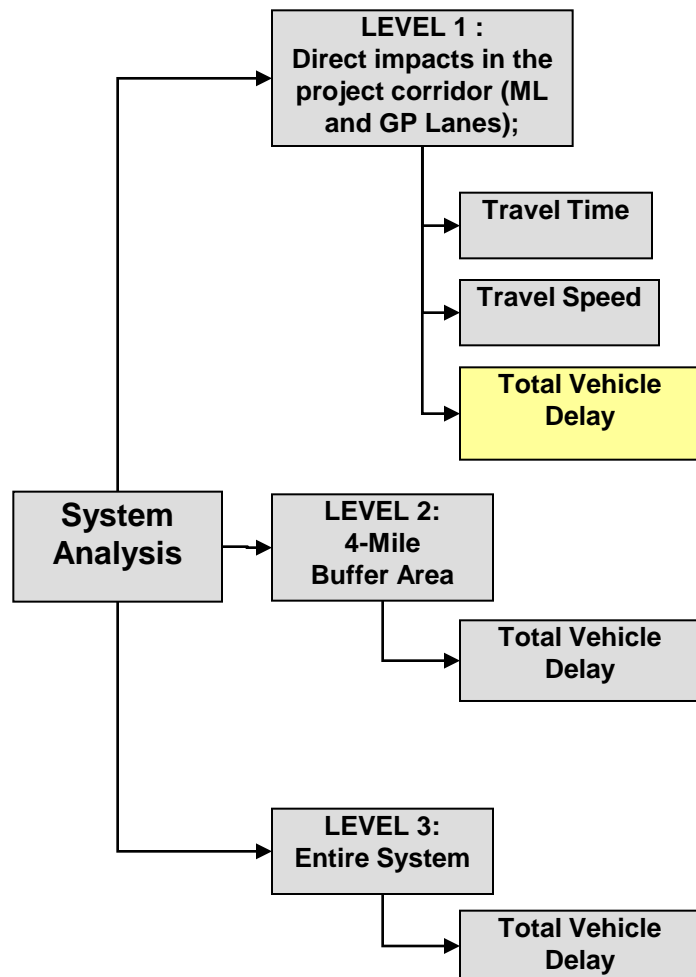
Distance ≈ 17 Miles



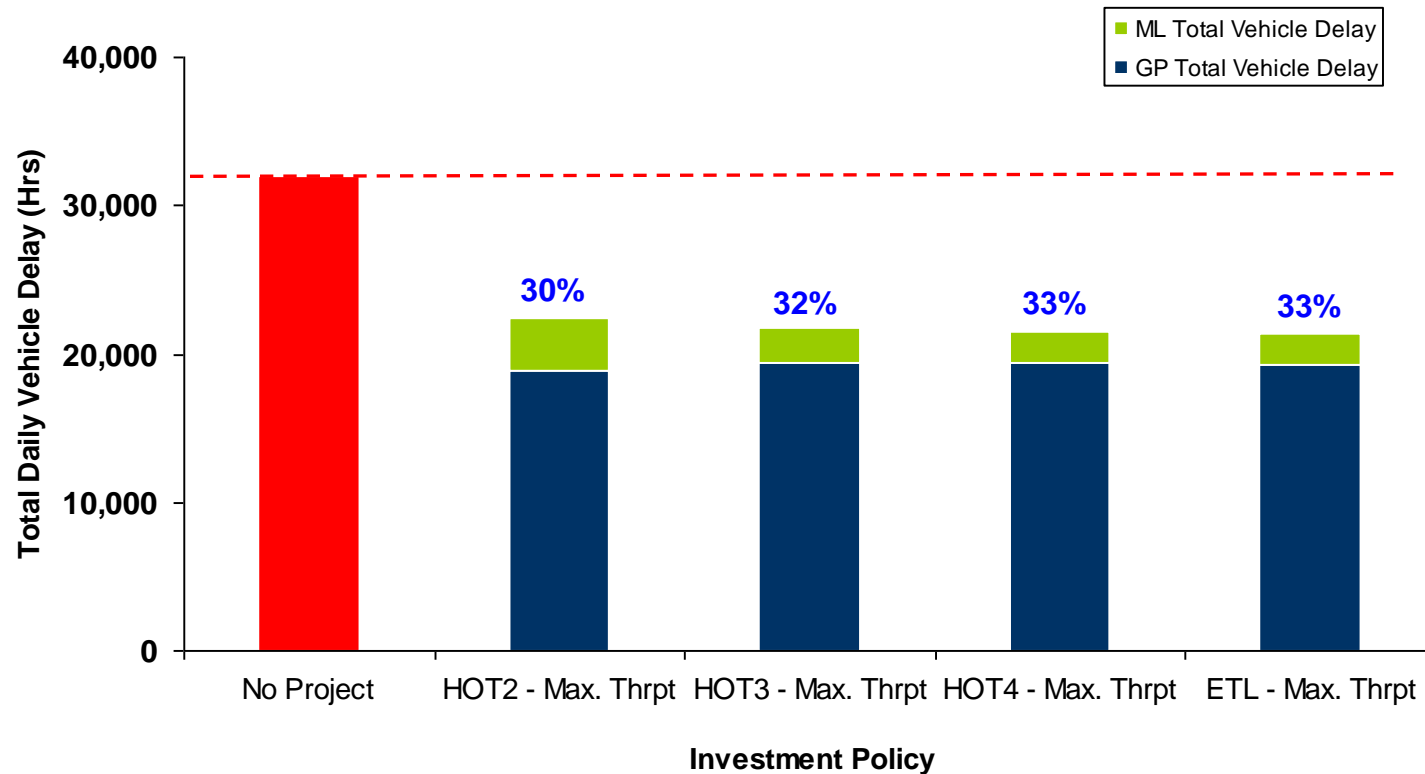


# I-20 East Corridor

## – Transportation User Benefits (2030 Max Throughput)



Decrease in Total Daily Vehicle Delay along this corridor relative to the “No Project” scenario



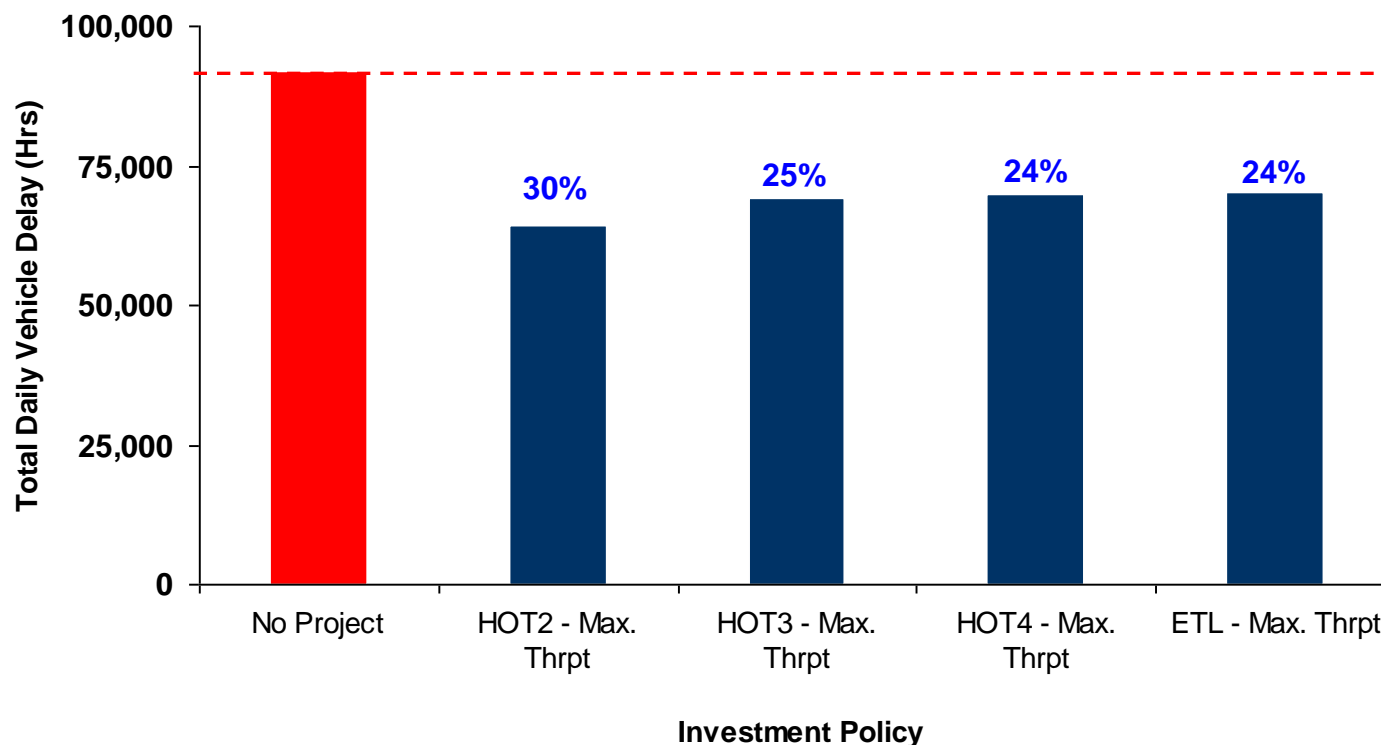
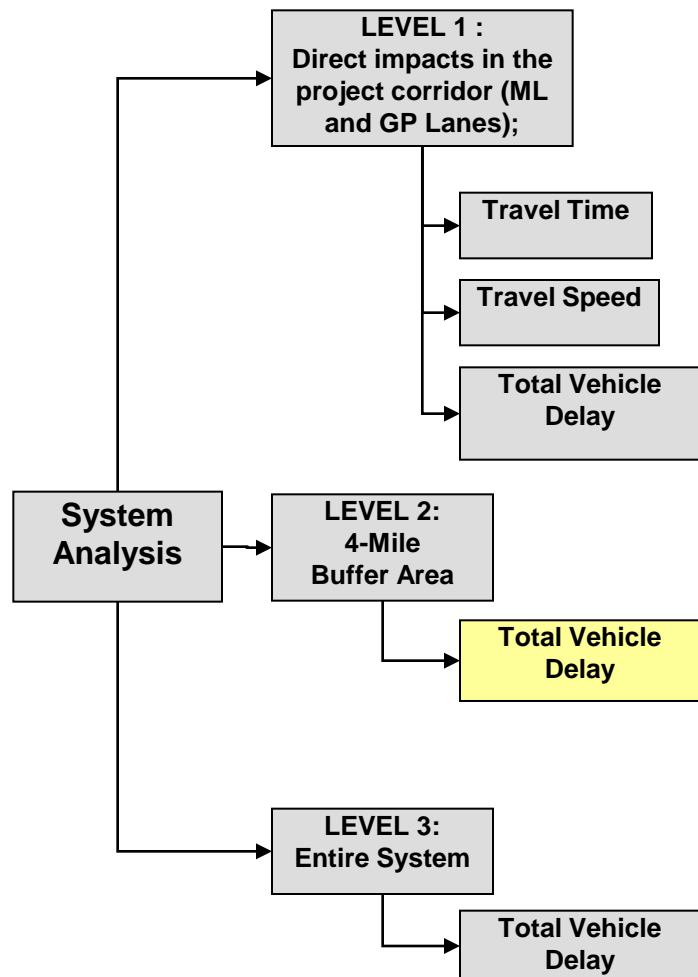
Distance ≈ 17 Miles





# I-20 East Corridor

## – Transportation User Benefits (2030 Max Throughput)

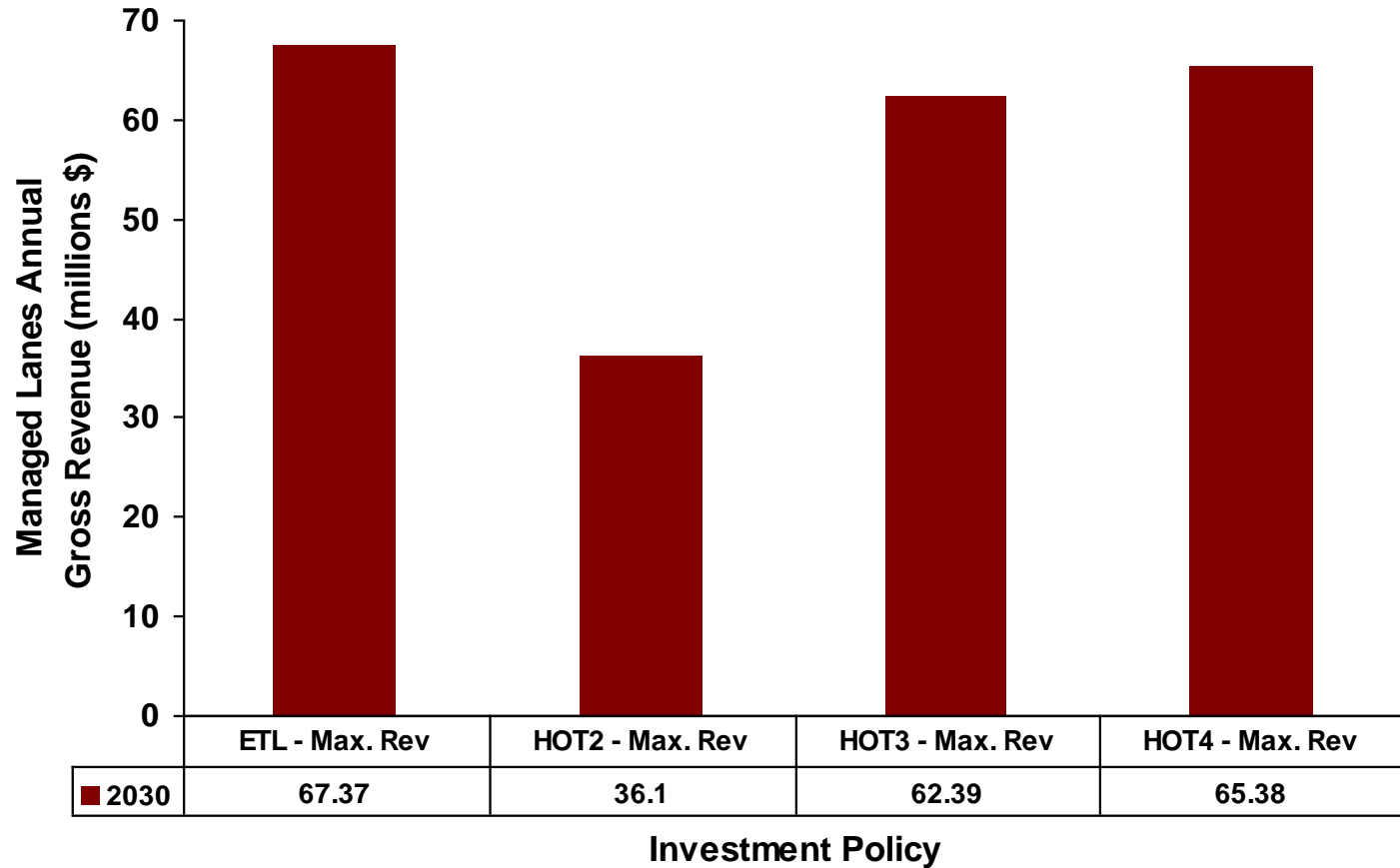
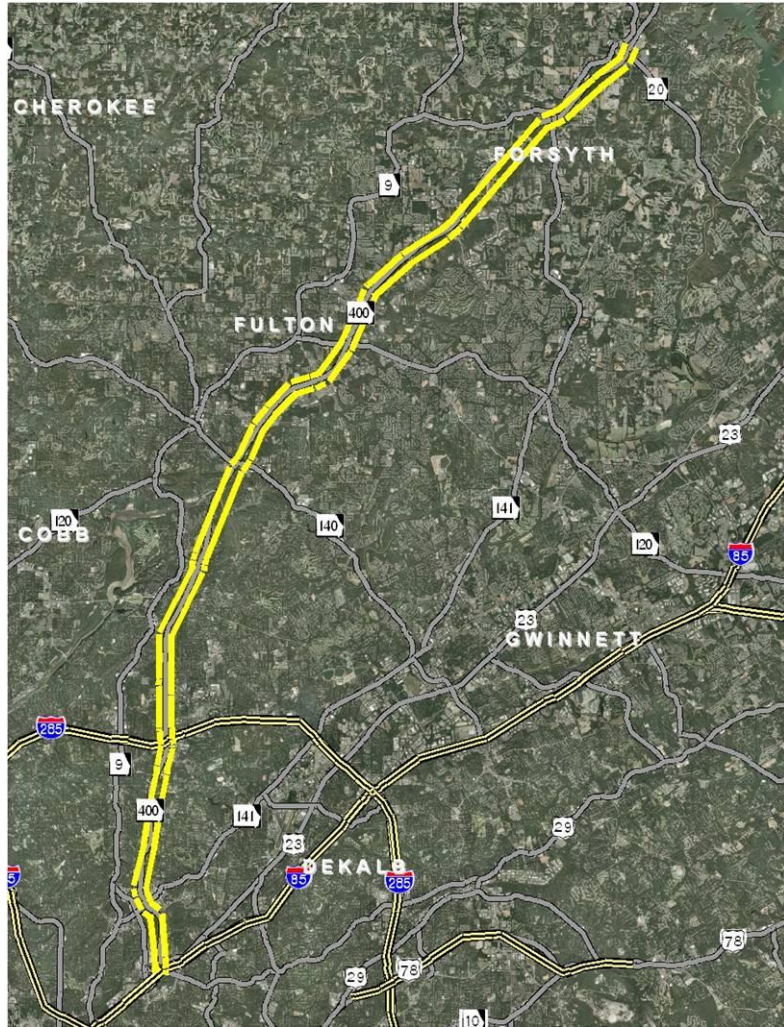


Distance ≈ 17 Miles



# 400

# SR 400 Corridor – Max Revenue Forecast



Distance ≈ 33 Miles

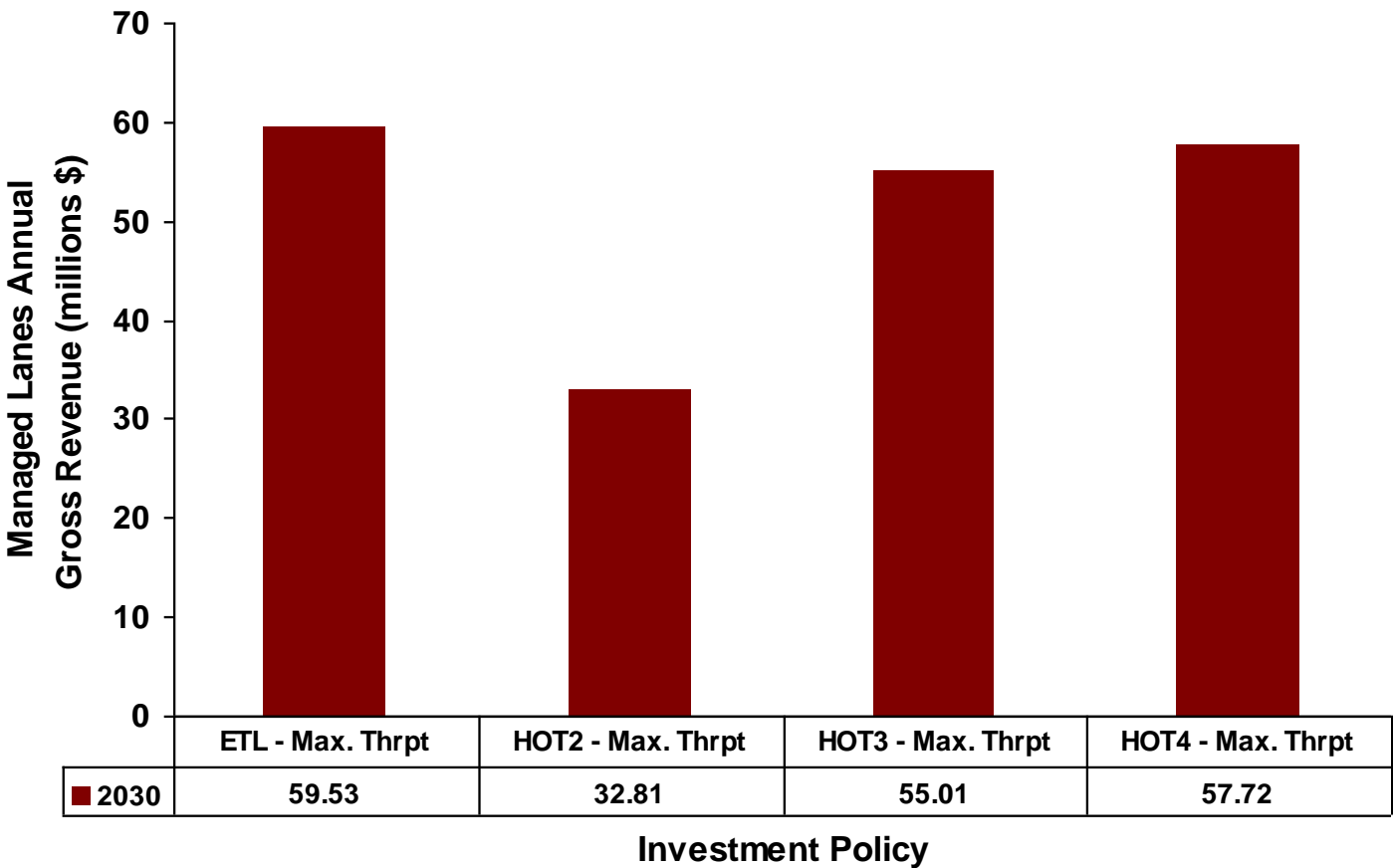
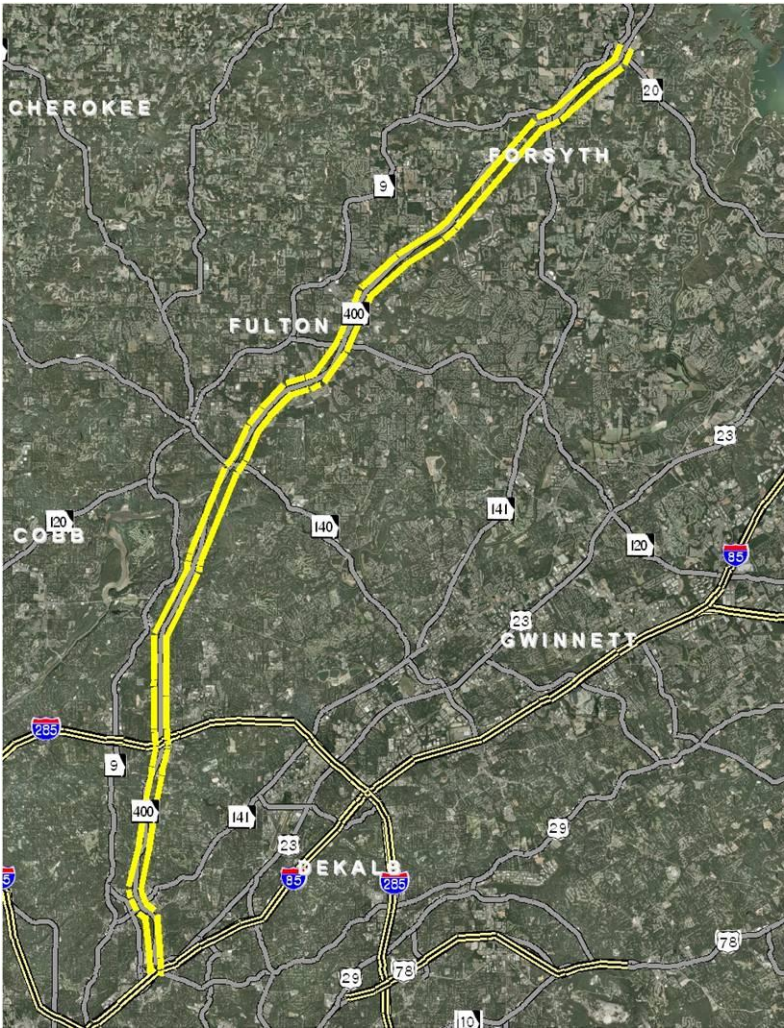
\* Toll Rates established with ETL policy were used for all HOT policies.





400

# SR 400 Corridor – Max Throughput Forecast

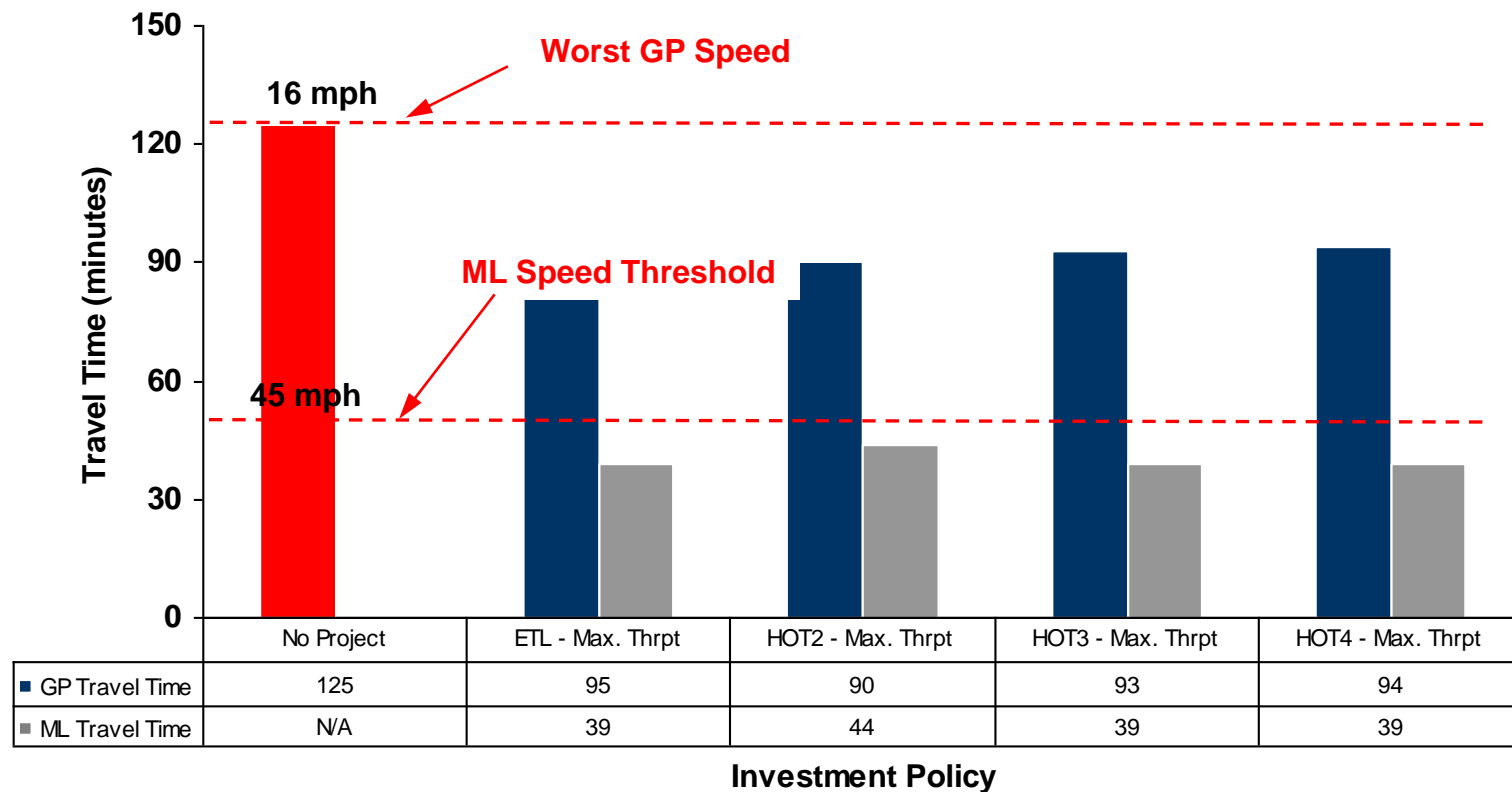
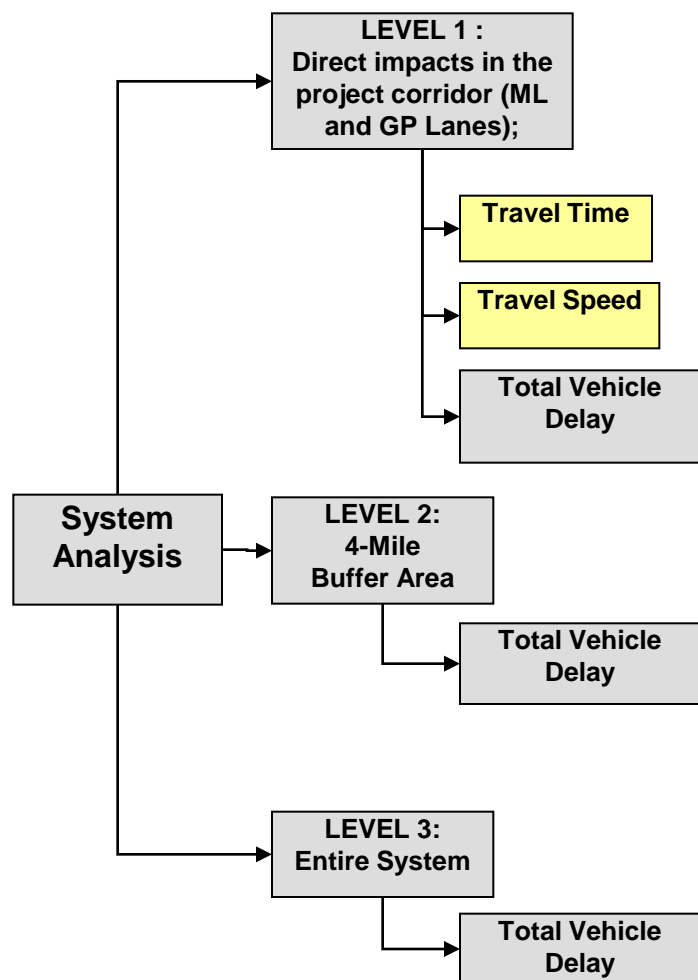


Distance ≈ 33 Miles

\* Toll Rates established with ETL policy were used for all HOT policies.



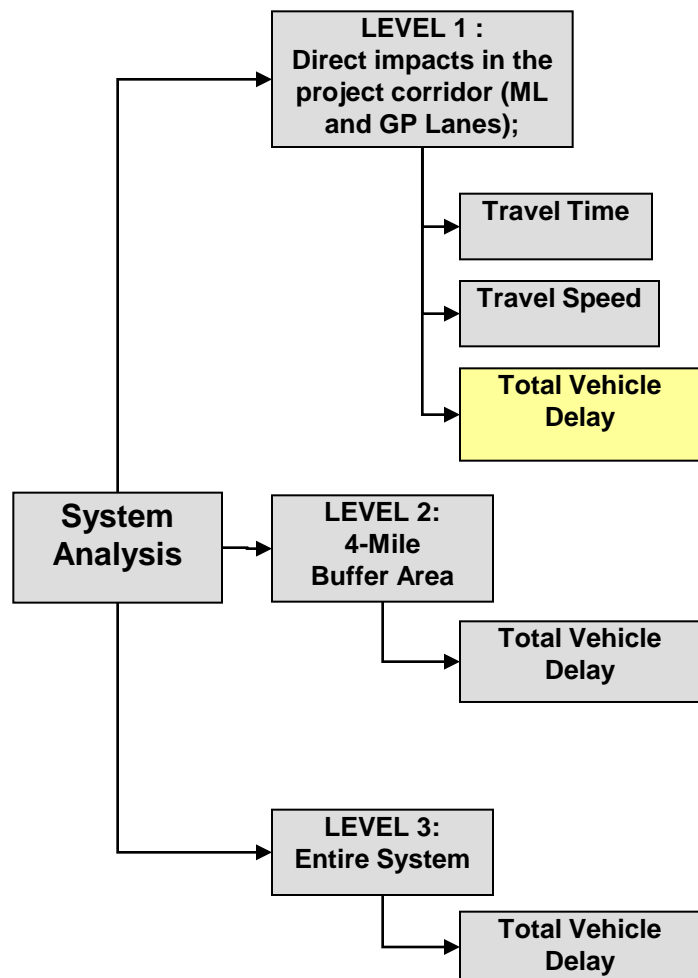
## – Transportation User Benefits (2030 Max Throughput)



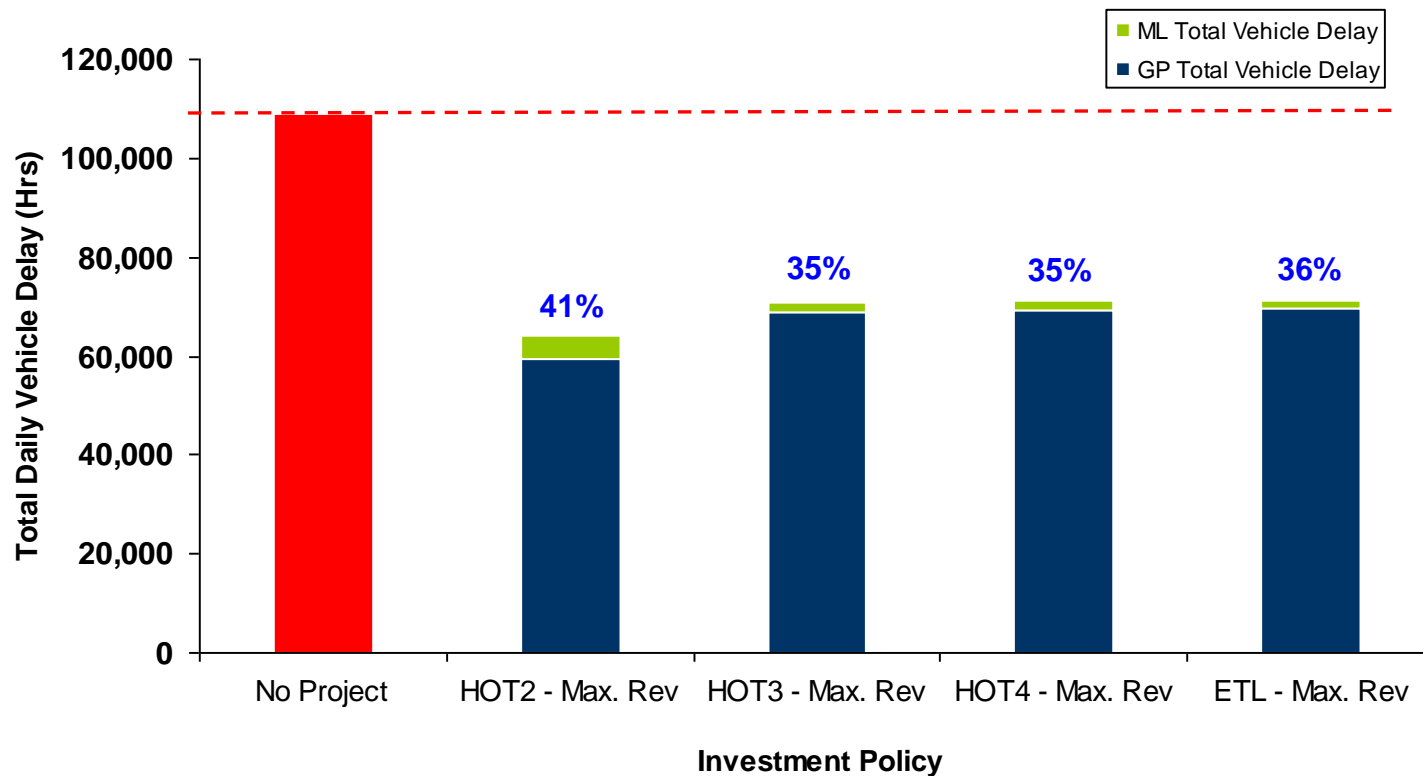
- Distance ≈ 33 Miles
- GP Travel Speed (Envision 6): 19 mph
- GP Travel Speed: 15 - 22 mph
- ML Travel Speed: 45 - 54 mph



## – Transportation User Benefits (2030 Max Revenue)



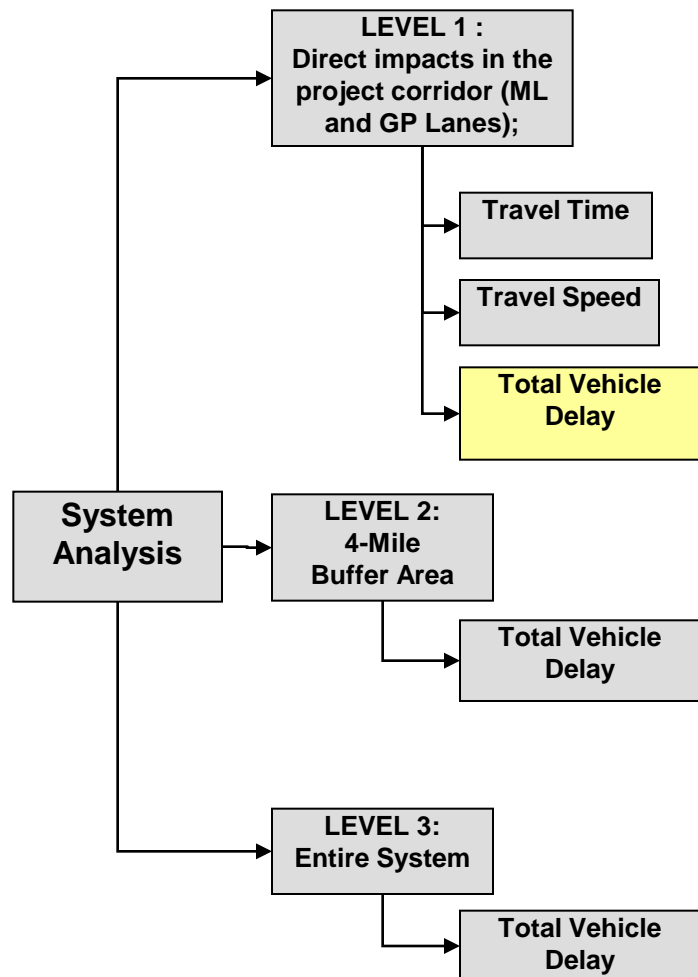
Decrease in Total Daily Vehicle Delay along this corridor relative to the “No Project” scenario



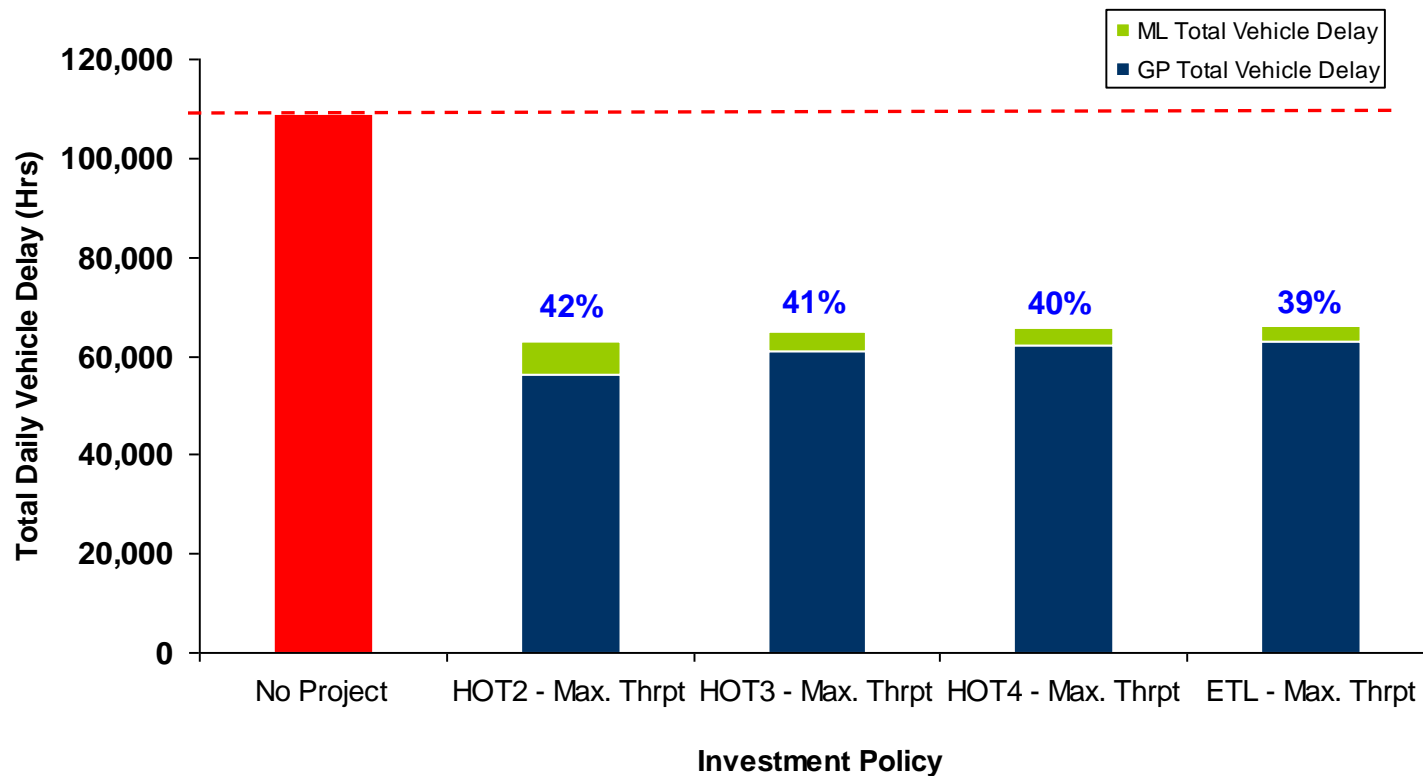
Distance ≈ 33 Miles



## – Transportation User Benefits (2030 Max Throughput)



Decrease in Total Daily Vehicle Delay along this corridor relative to the “No Project” scenario



Distance ≈ 33 Miles

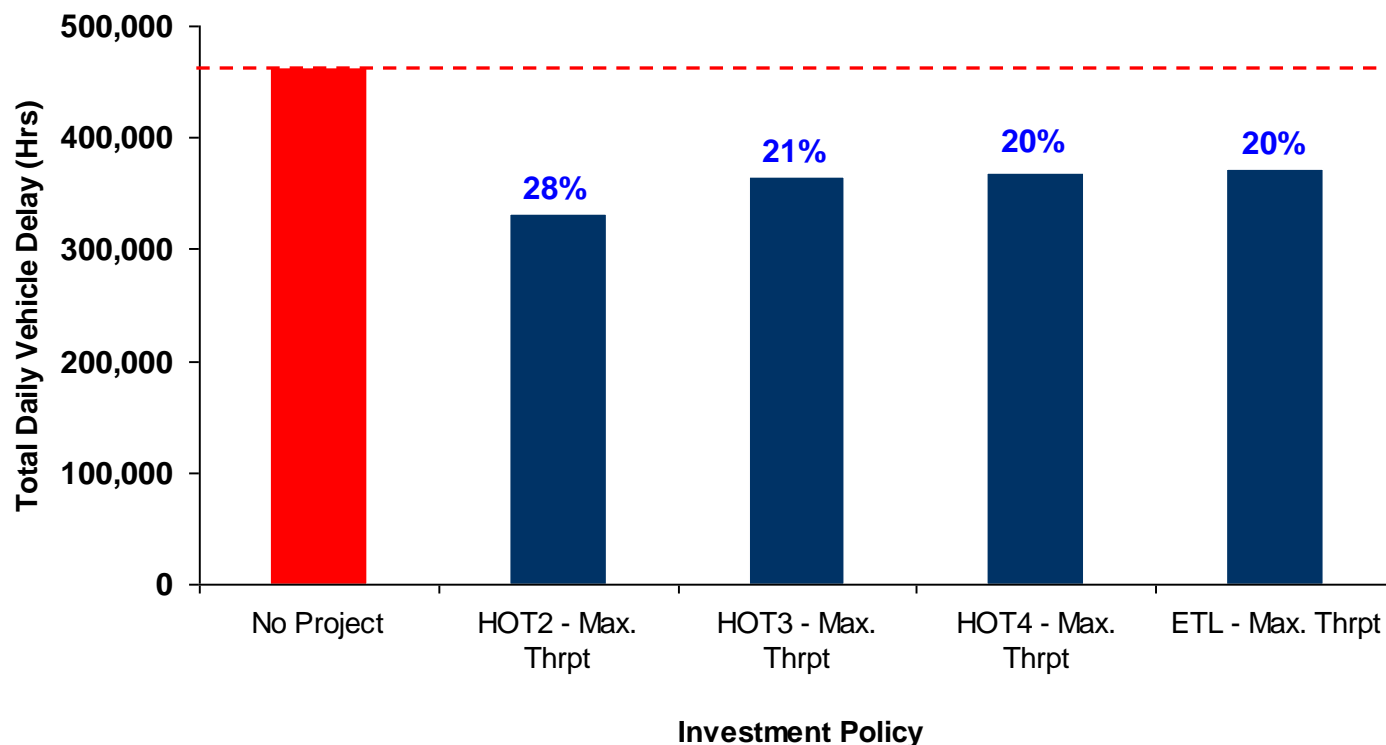
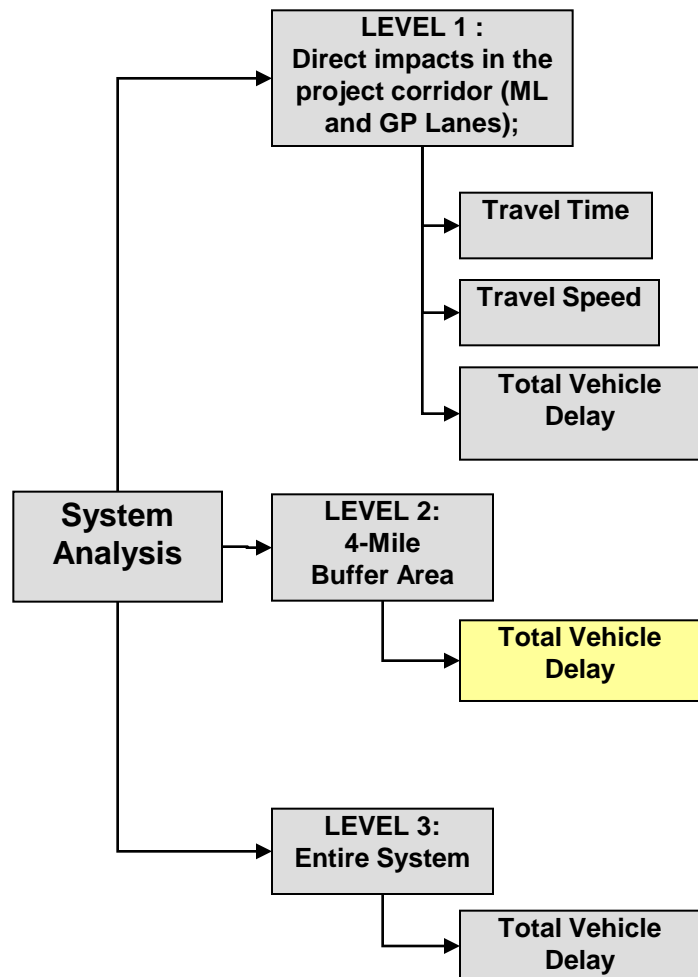




400

## SR 400 Corridor

## – Transportation User Benefits (2030 Max Throughput)

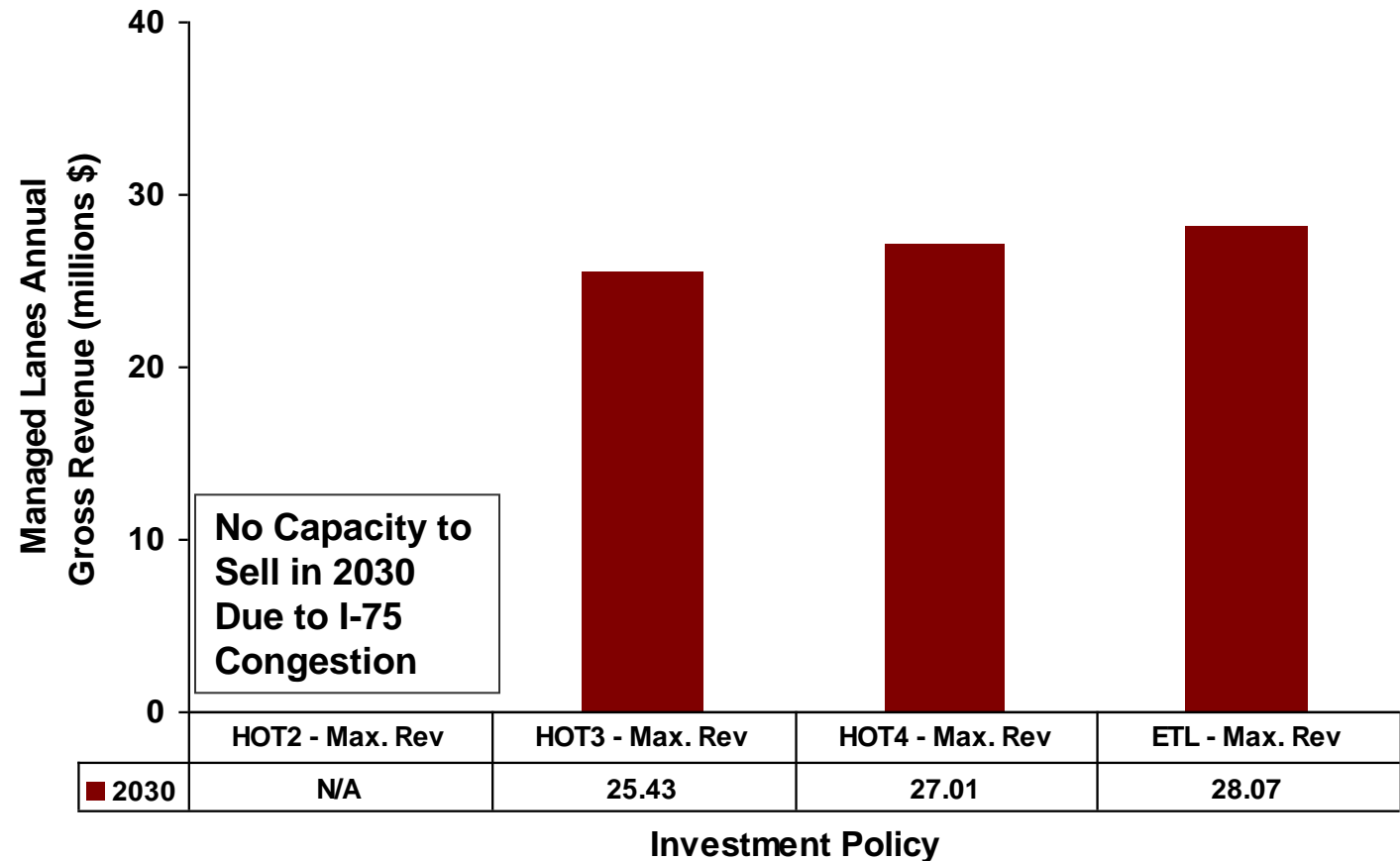
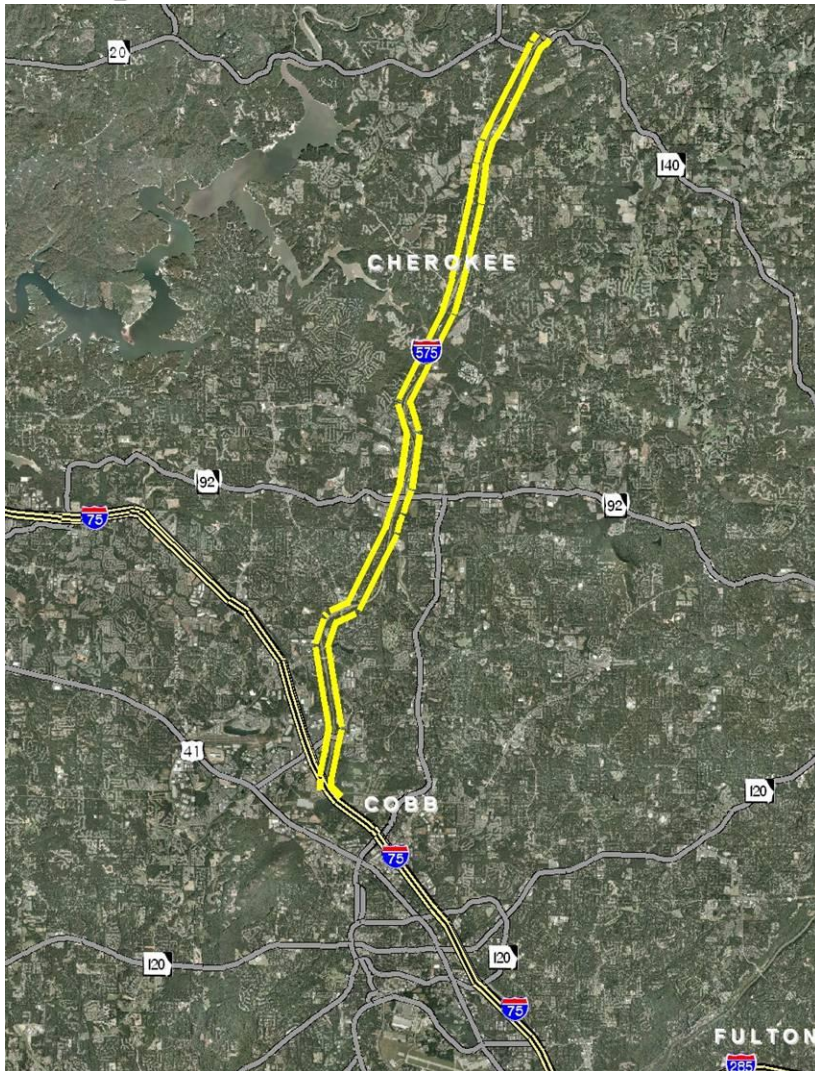


Distance ≈ 33 Miles





# I-575 Corridor – Max Revenue Forecast



Distance ≈ 20 Miles

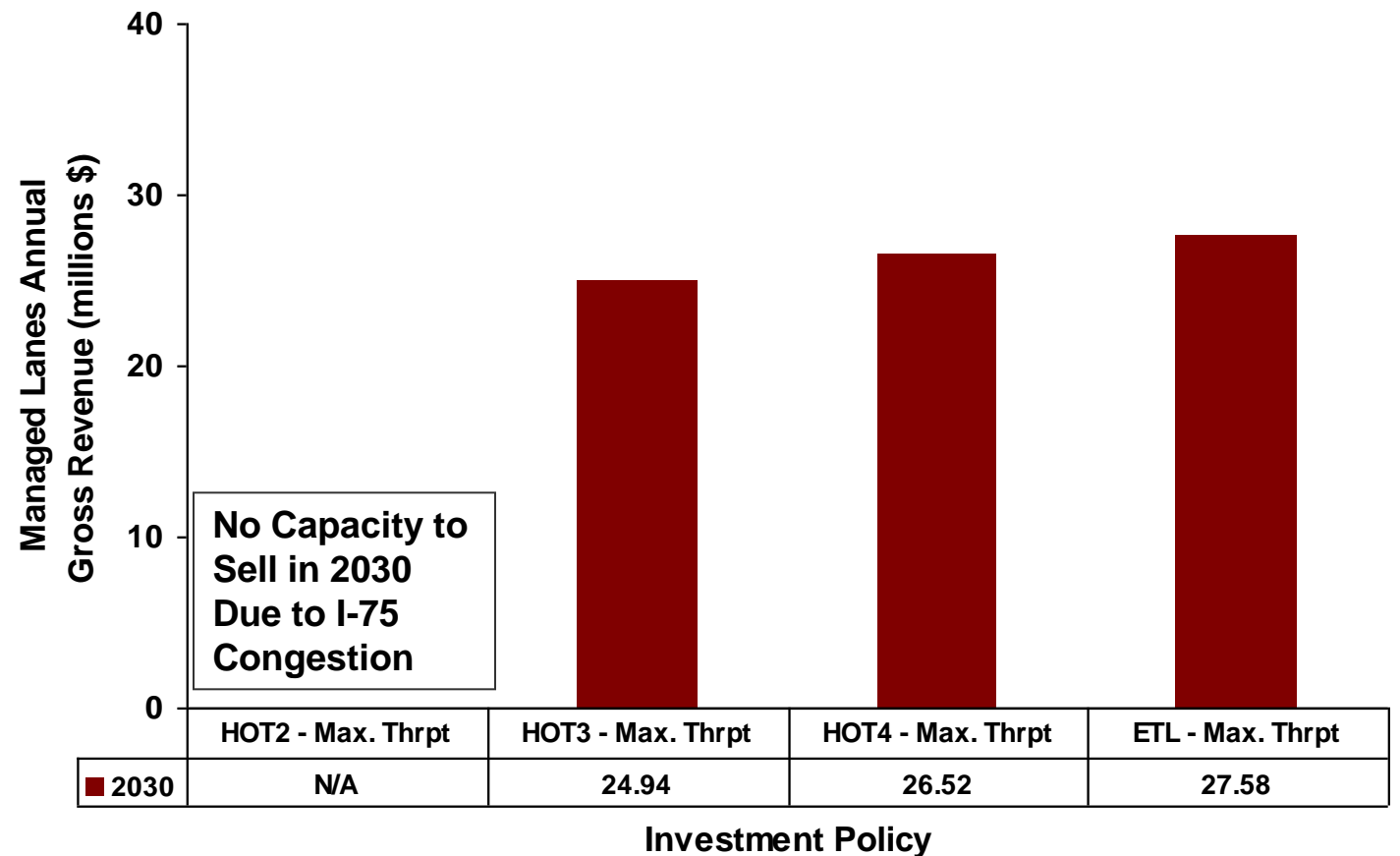
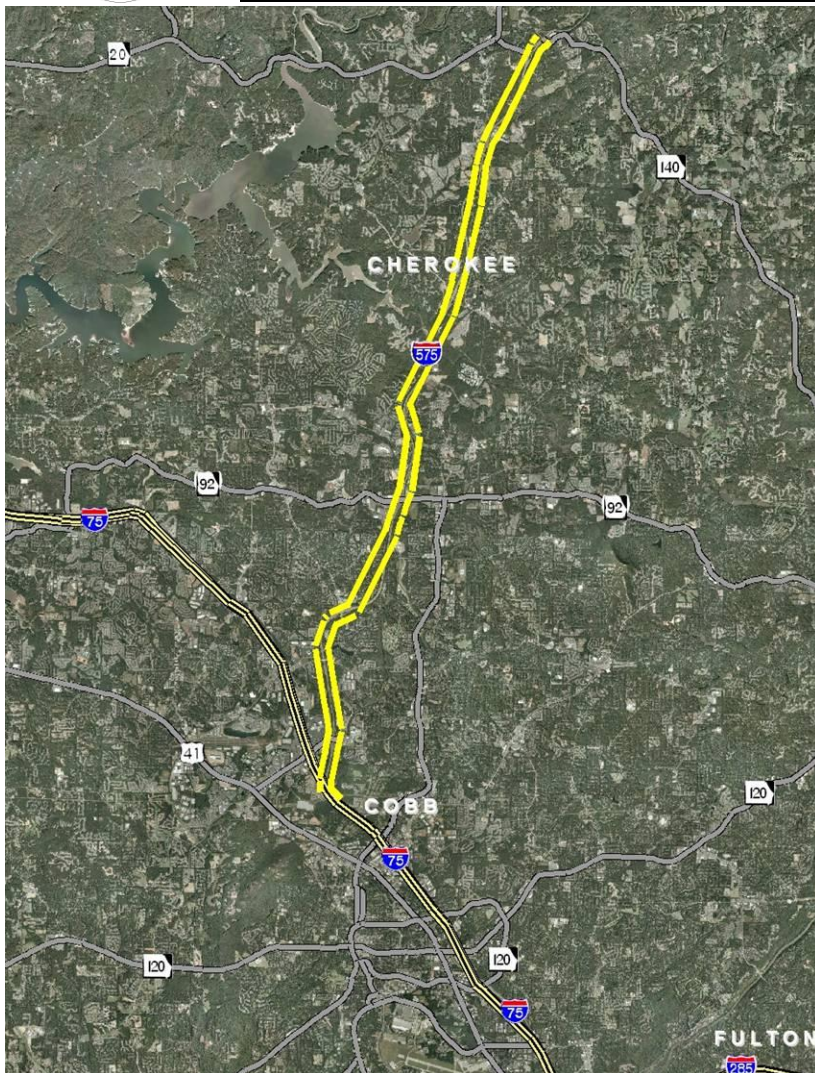
\* Toll Rates established with ETL policy were used for all HOT policies.







# I-575 Corridor – Max Throughput Forecast



Distance ≈ 20 Miles

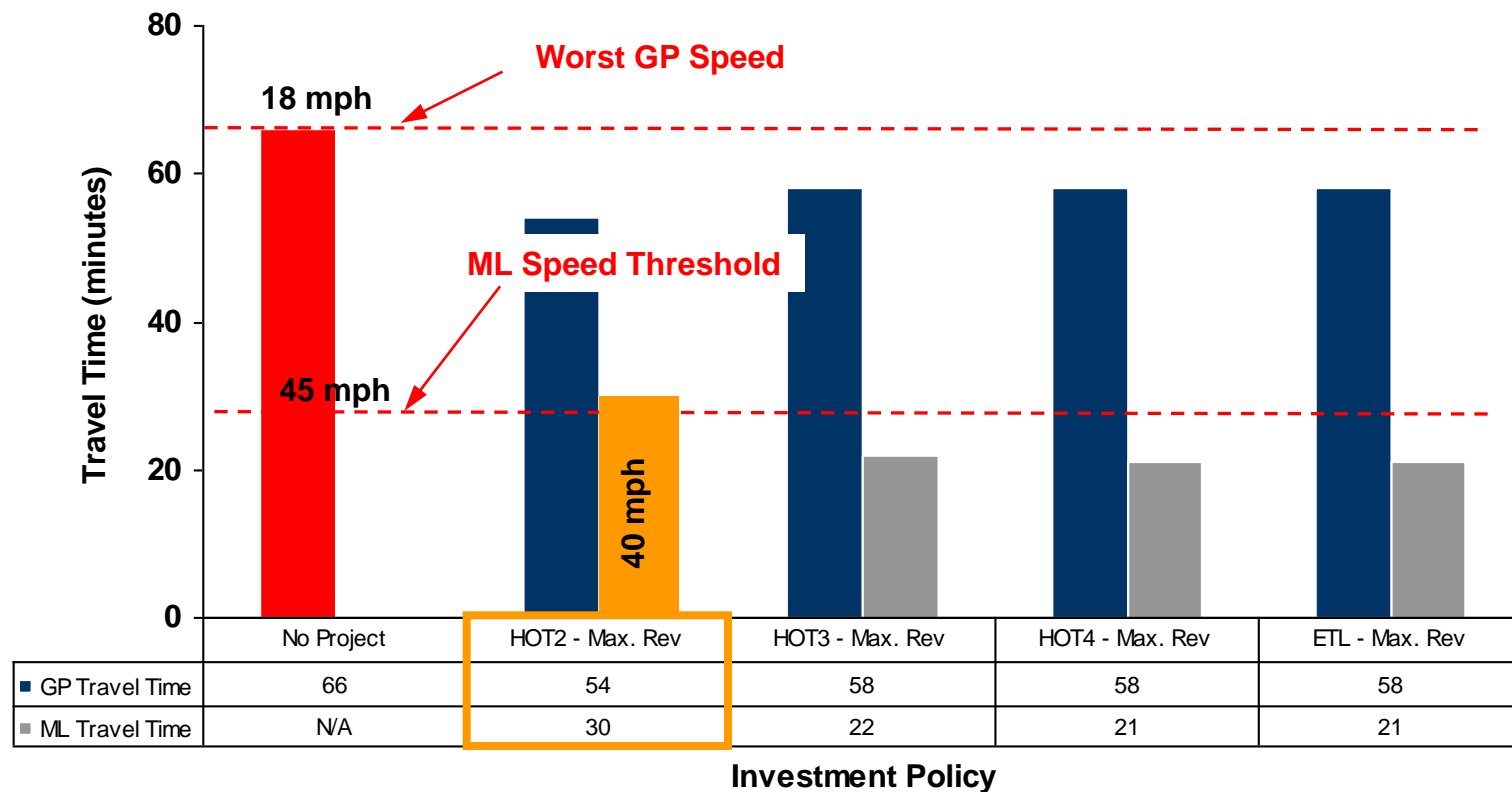
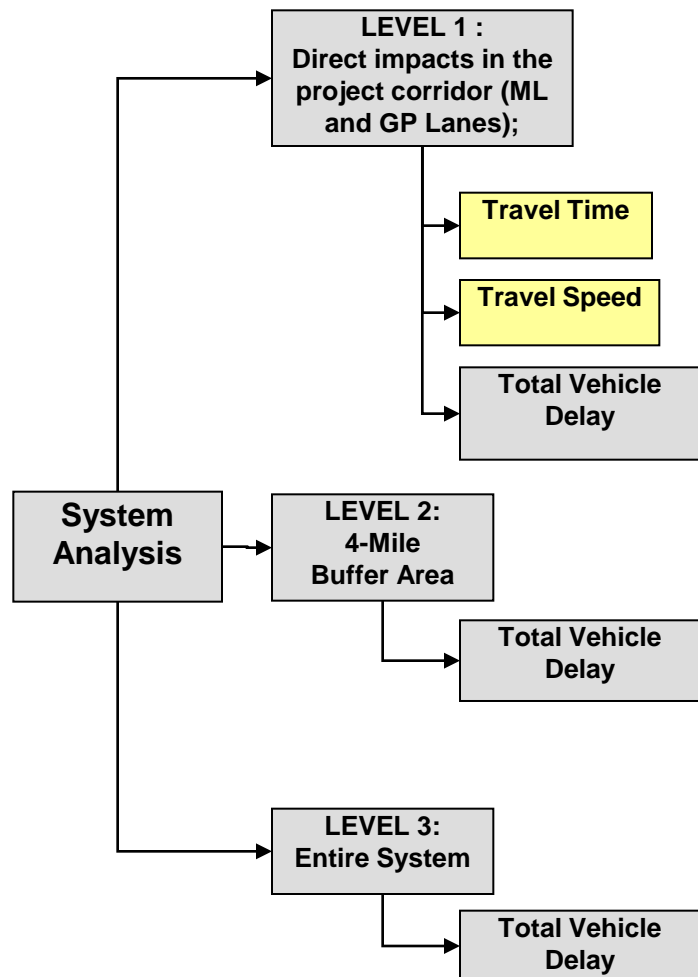
\* Toll Rates established with ETL policy were used for all HOT policies.





# I-575 Corridor

## – Transportation User Benefits (2030 Max Revenue)



- Distance ≈ 20 Miles
- GP Travel Speed (Envision 6): 20 mph
- GP Travel Speed: 18 - 22 mph
- ML Travel Speed: > 50 mph

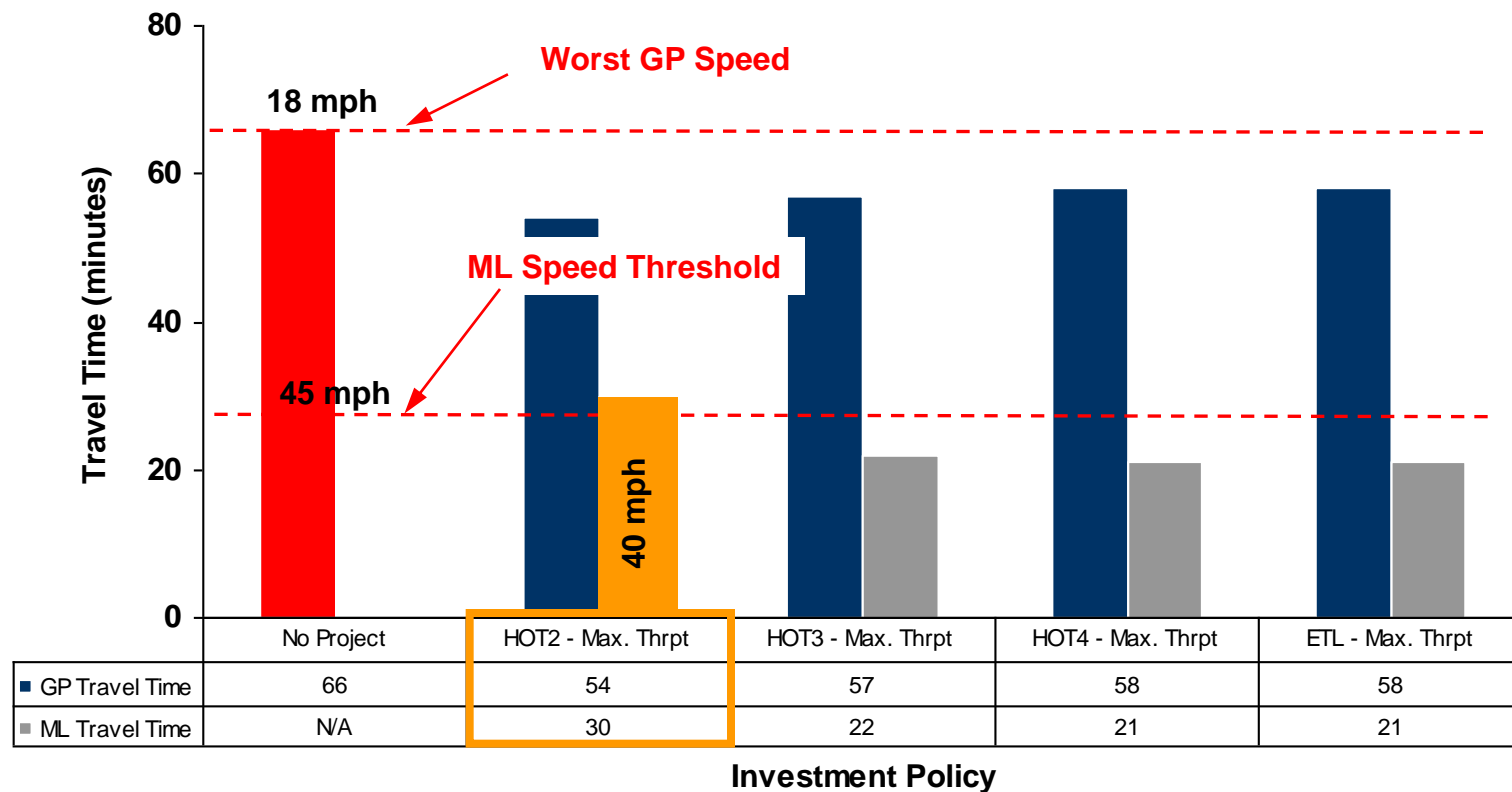
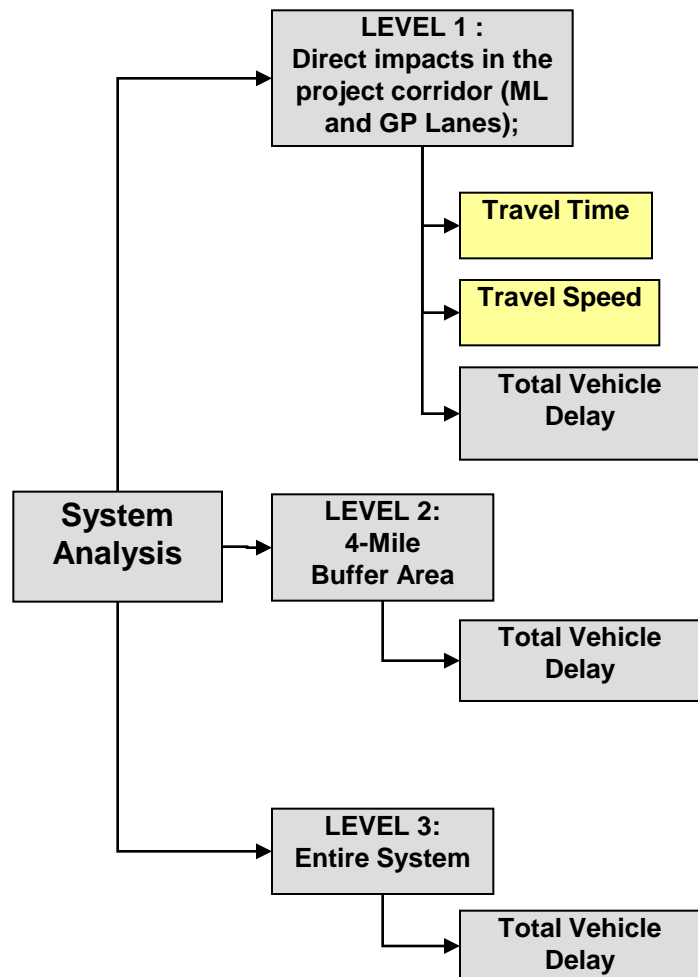






# I-575 Corridor

## – Transportation User Benefits (2030 Max Throughput)



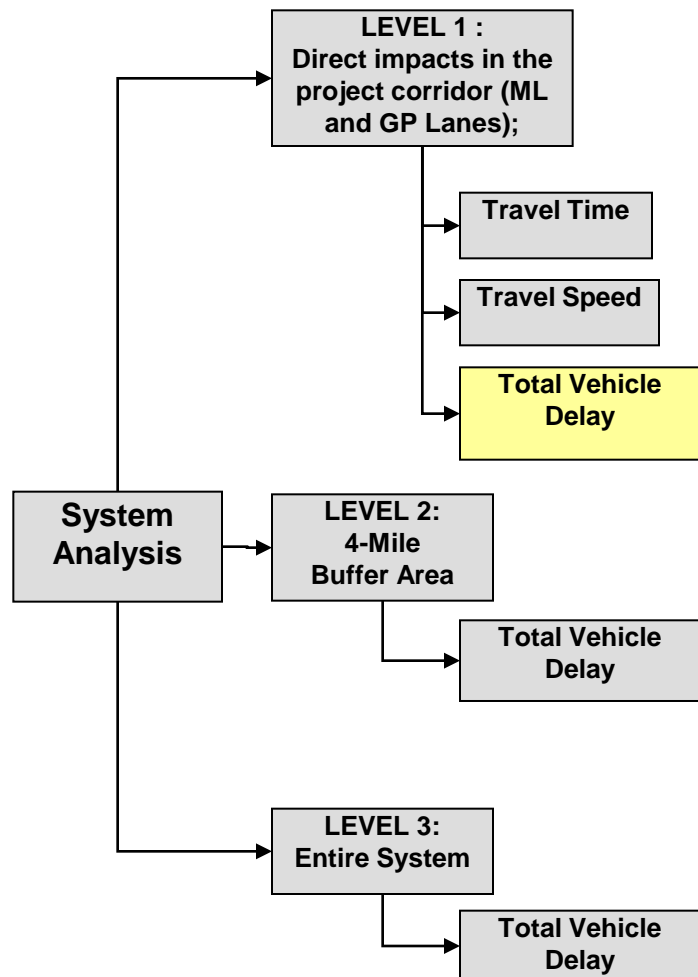
- Distance ≈ 20 Miles
- GP Travel Speed (Envision 6): 20 mph
- GP Travel Speed: 18 - 22 mph
- ML Travel Speed: > 50 mph



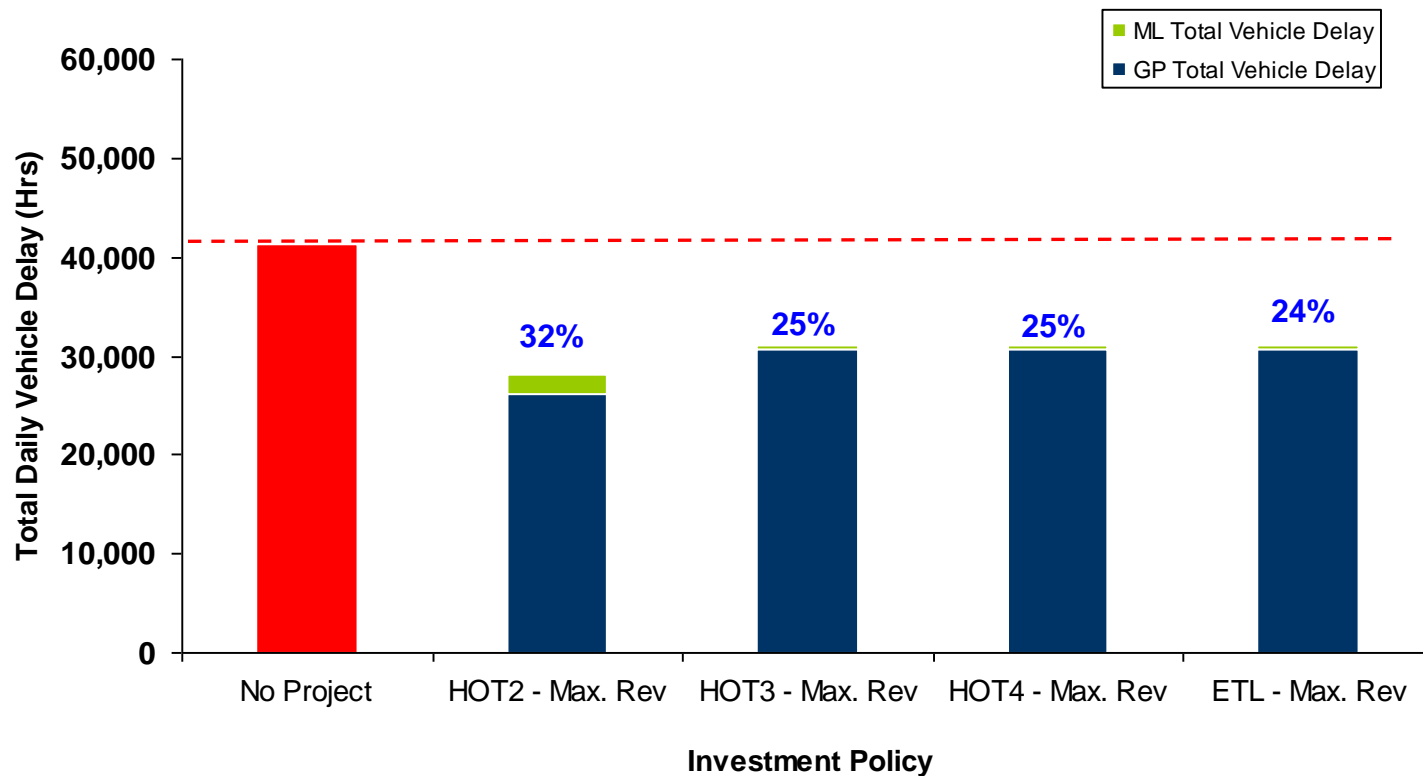


# I-575 Corridor

## – Transportation User Benefits (2030 Max Revenue)



Decrease in Total Daily Vehicle Delay along this corridor relative to the “No Project” scenario



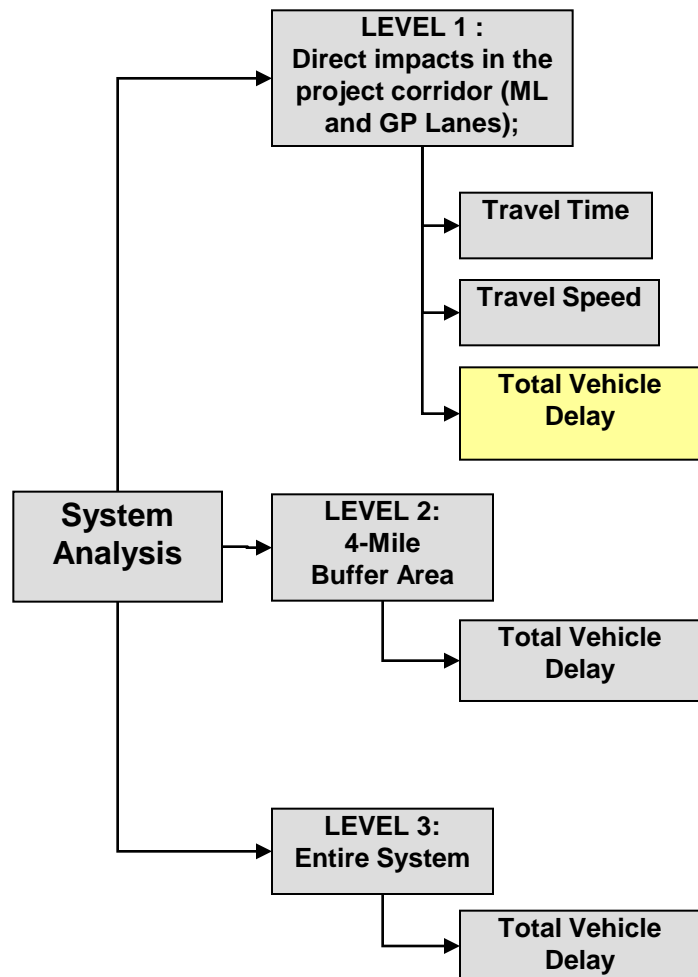
Distance ≈ 20 Miles



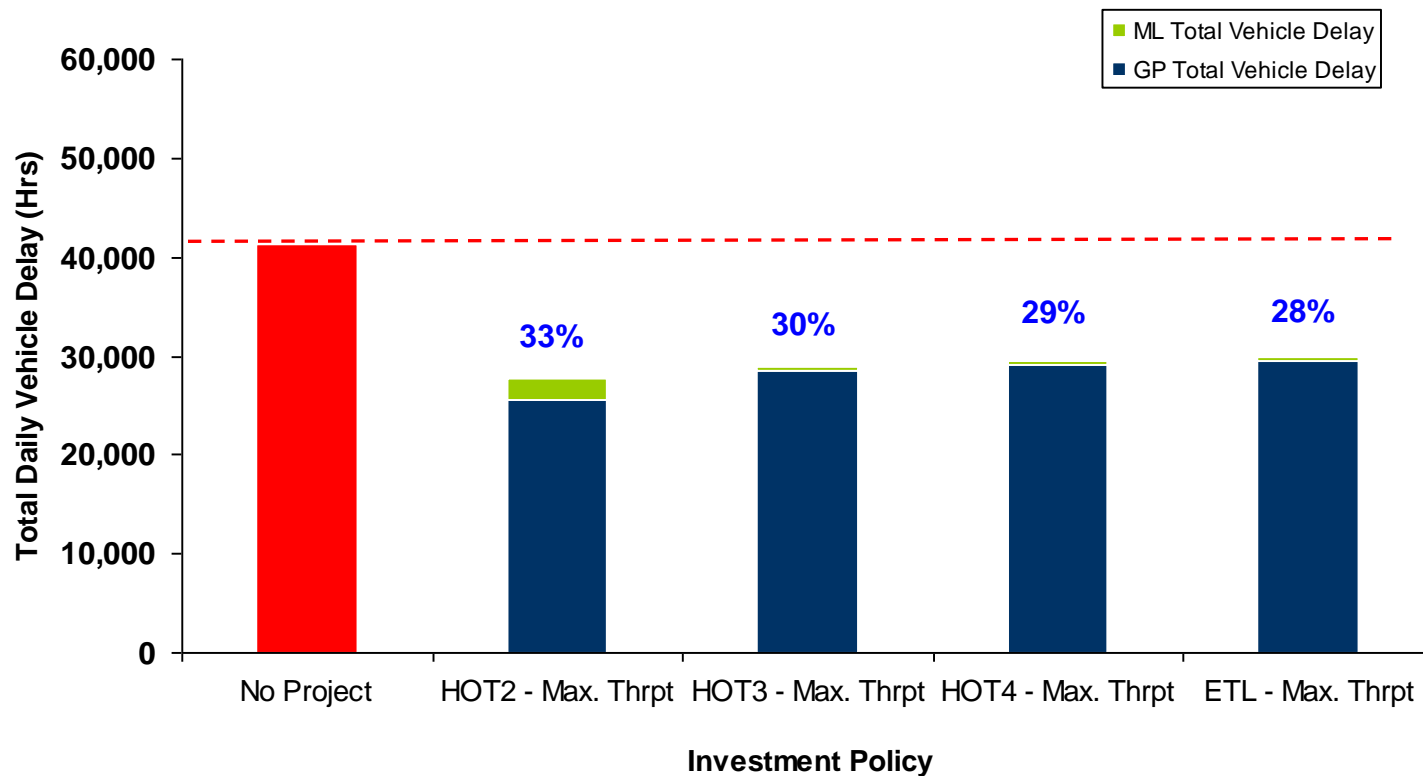


# I-575 Corridor

## – Transportation User Benefits (2030 Max Throughput)



Decrease in Total Daily Vehicle Delay along this corridor relative to the “No Project” scenario



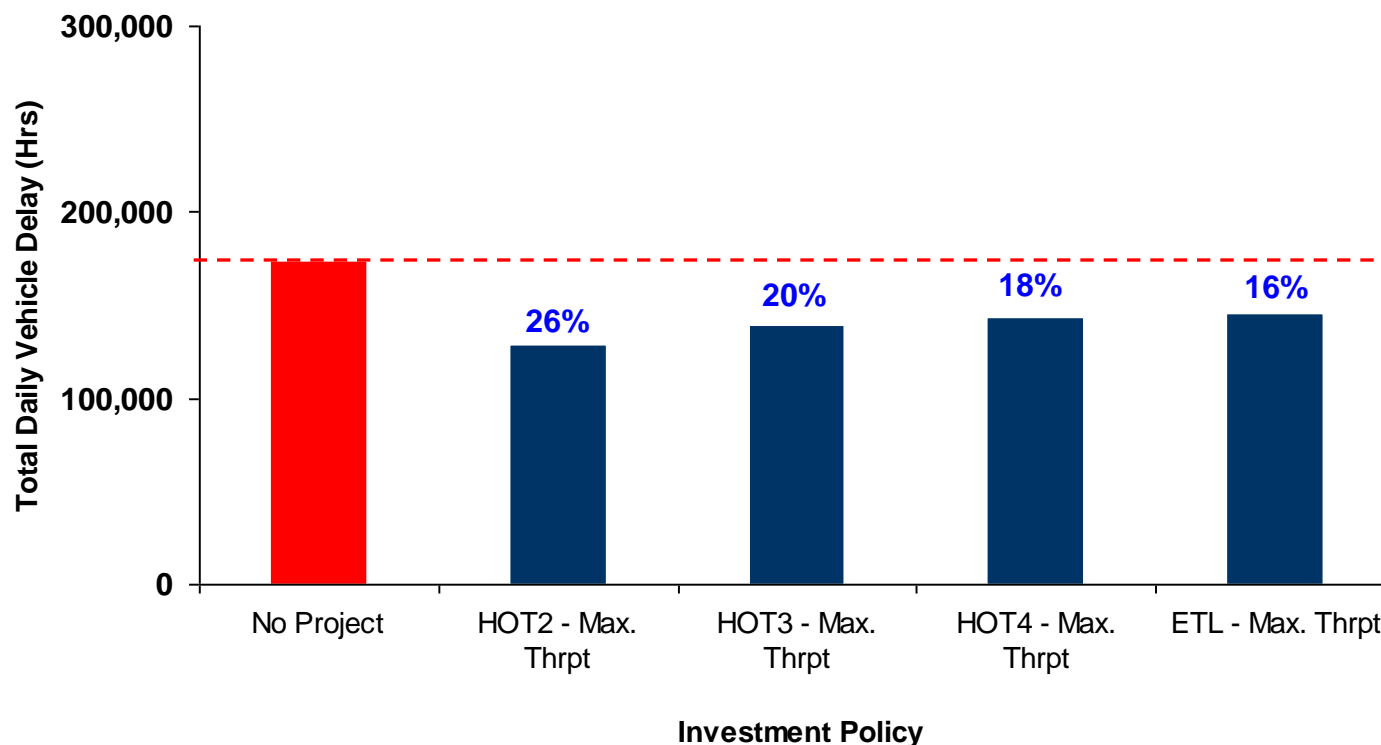
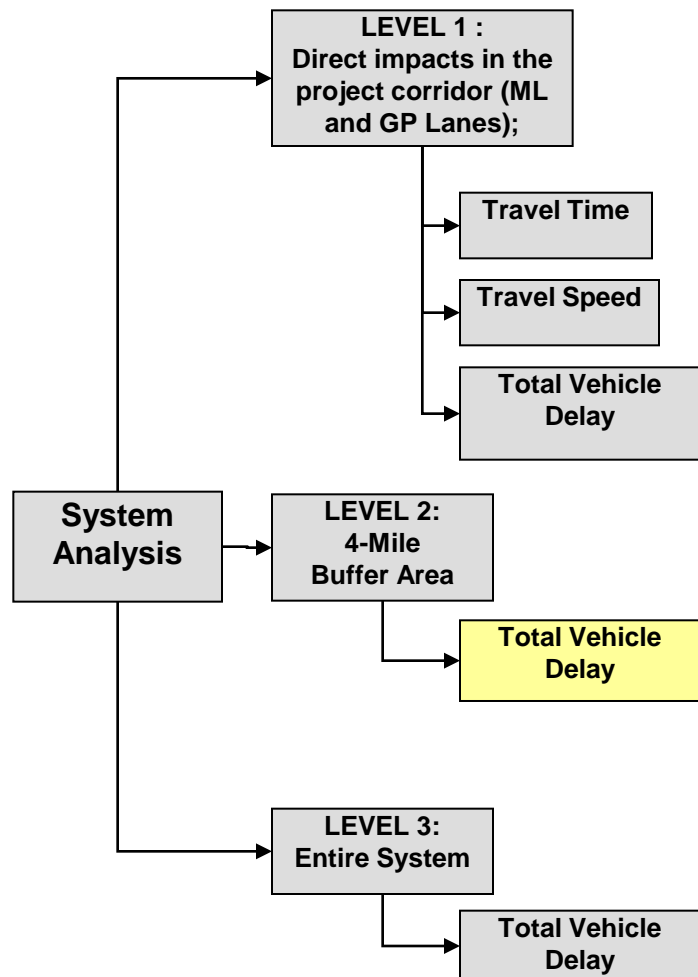
Distance ≈ 20 Miles





# I-575 Corridor

## – Transportation User Benefits (2030 Max Throughput)



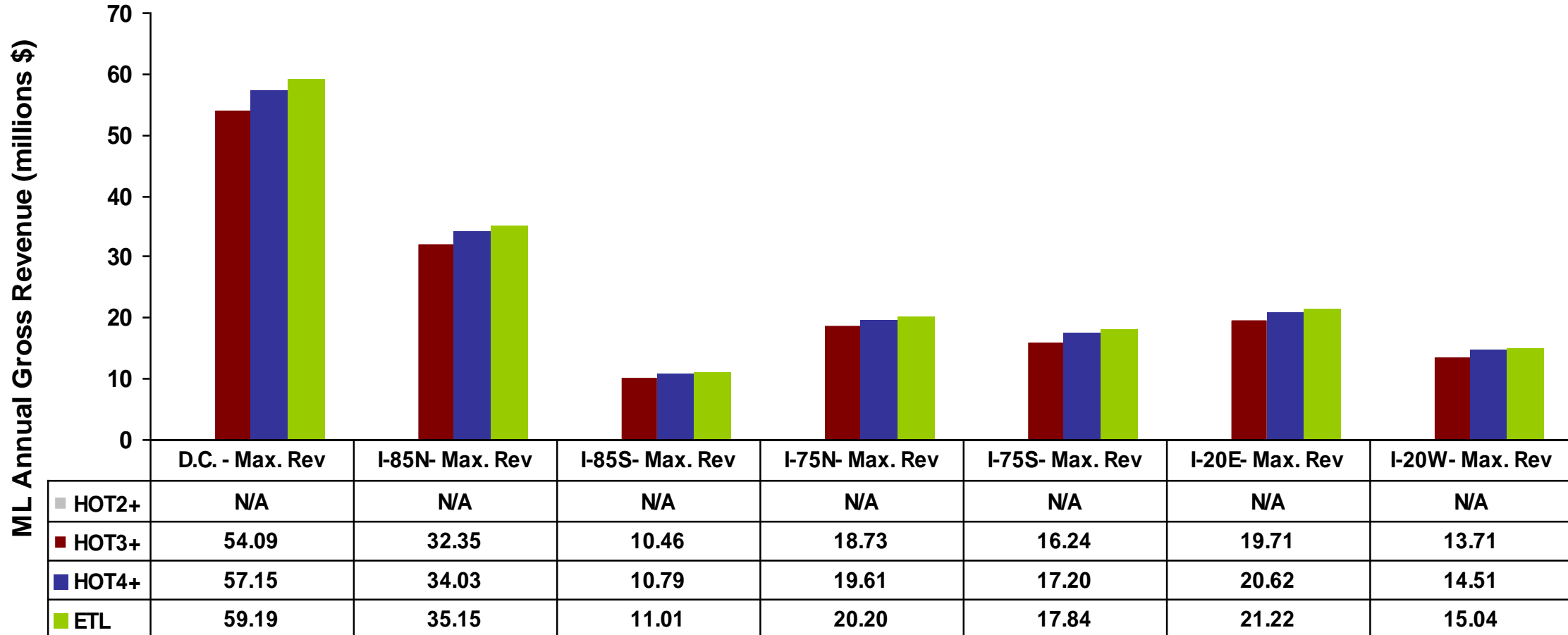
Distance ≈ 20 Miles







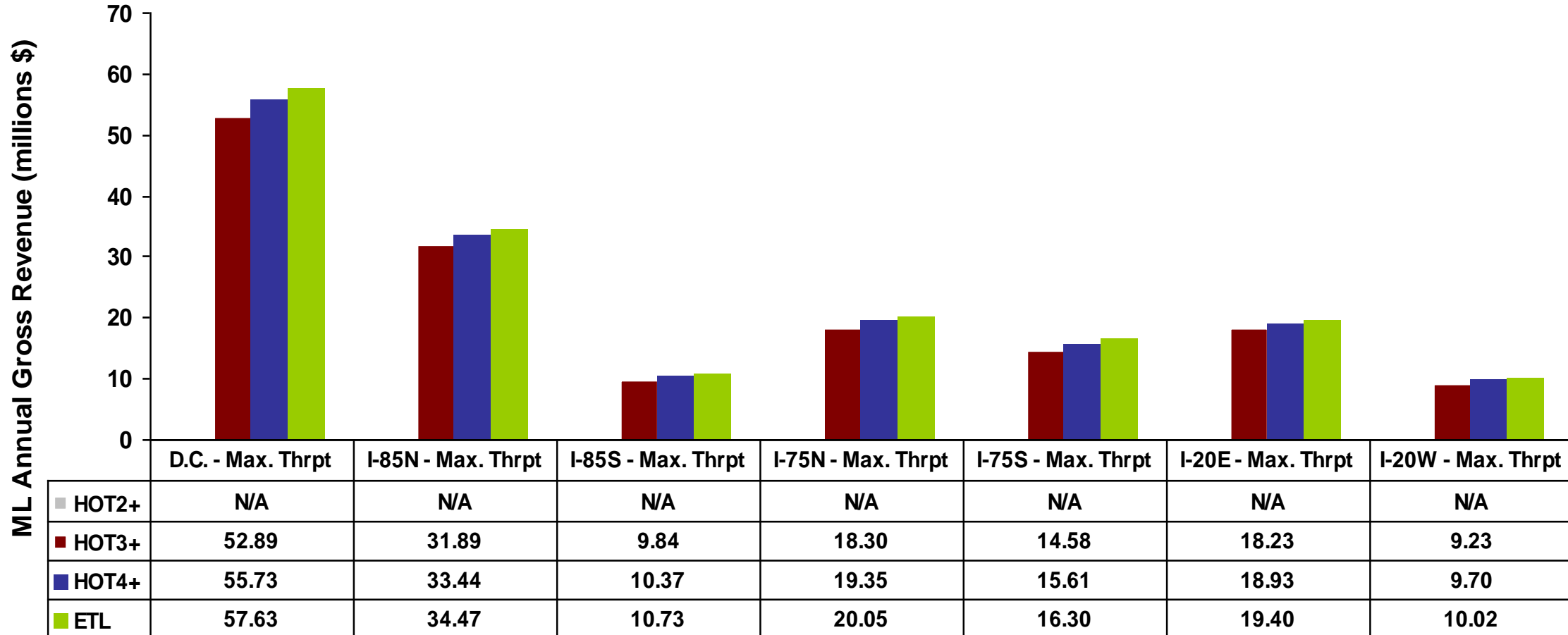
# Interstate Segments Inside of I-285: I-20, I-75, I-85 (2030 Max Revenue)



Investment Policy



# Interstate Segments Inside of I-285: I-20, I-75, I-85 (2030 Max Throughput)



Investment Policy

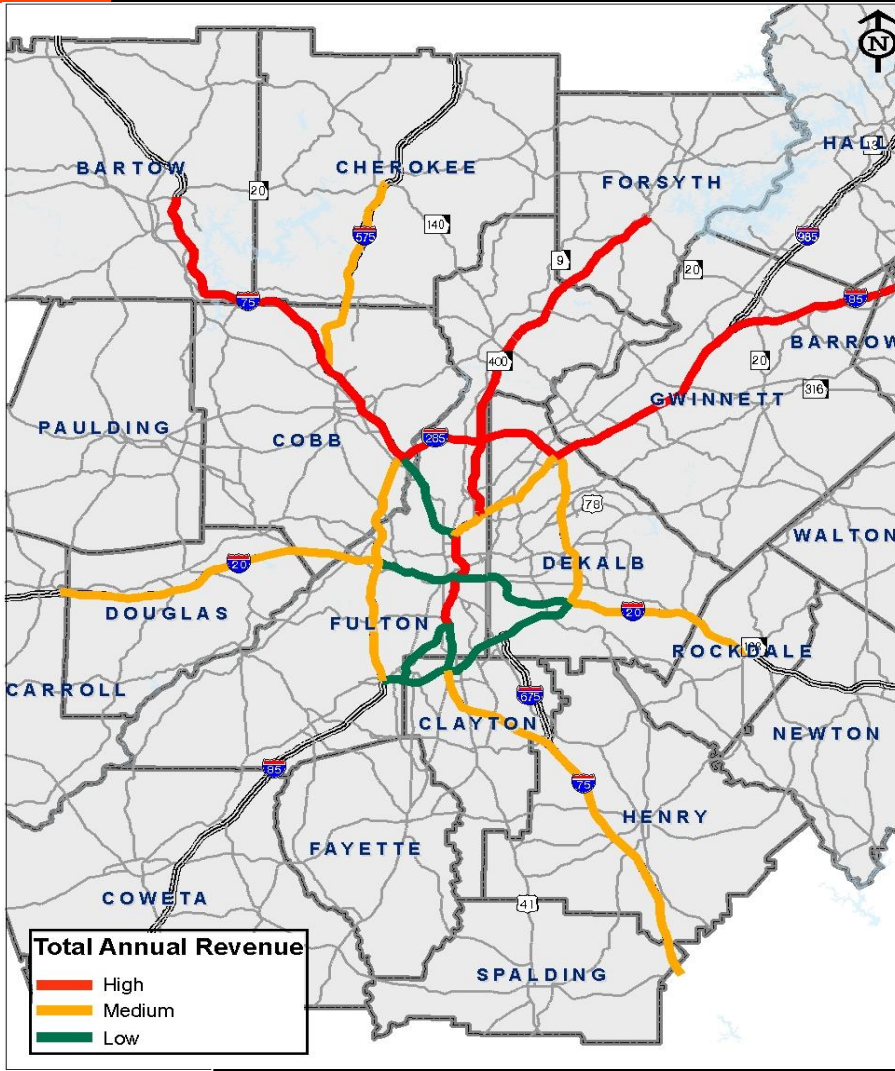


# Corridor Summaries Revenue and Delay





# HOT3 Annual Corridor Revenue\* Ranking

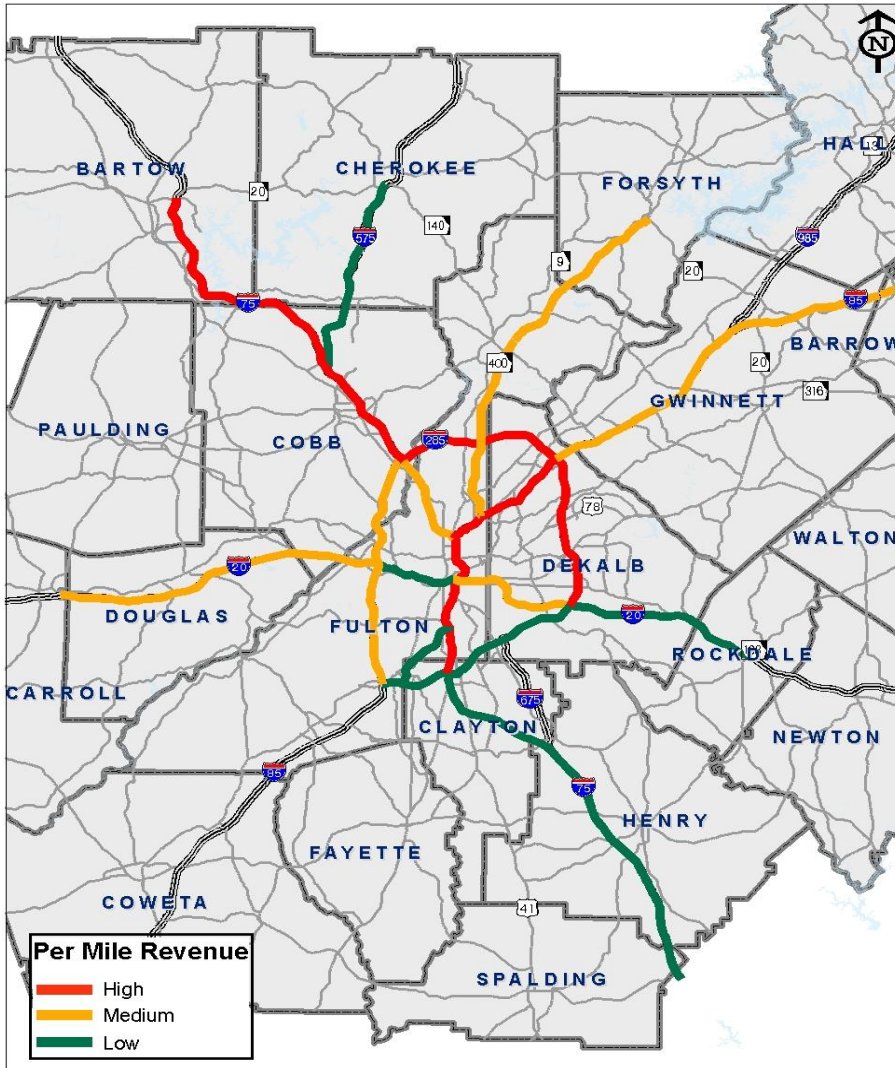


- **High \$52.89 – \$93.89 million**
  - ✓ I-75 North from I-285 North to SR 20
  - ✓ I-85 North from I-285 North to SR 211
  - ✓ I-285 North from I-85 North to I-75 North
  - ✓ SR 400 from I-85 to SR 20
  - ✓ Downtown Connector
- **Medium \$24.94 – \$46.49 million**
  - ✓ I-285 East from I-20 East to I-85 North
  - ✓ I-20 West from I-285 West to Post Road
  - ✓ I-285 West from I-75 North to I-20 West
  - ✓ I-75 South from I-285 South to SR 16
  - ✓ I-20 East from I-285 East to SR 138
  - ✓ I-575 from I-75 to SR 20
  - ✓ I-85 North Inside I-285
- **Low \$9.23 – \$20.94 million**
  - ✓ I-285 South from I-75 South to I-20 East
  - ✓ I-75 North Inside I-285
  - ✓ I-20 East Inside I-285
  - ✓ I-75 South Inside I-285
  - ✓ I-85 South Inside I-285
  - ✓ I-20 West Inside I-285

\*Revenue for Max Throughput Policy



# HOT3 Per Mile Corridor Revenue\* Ranking



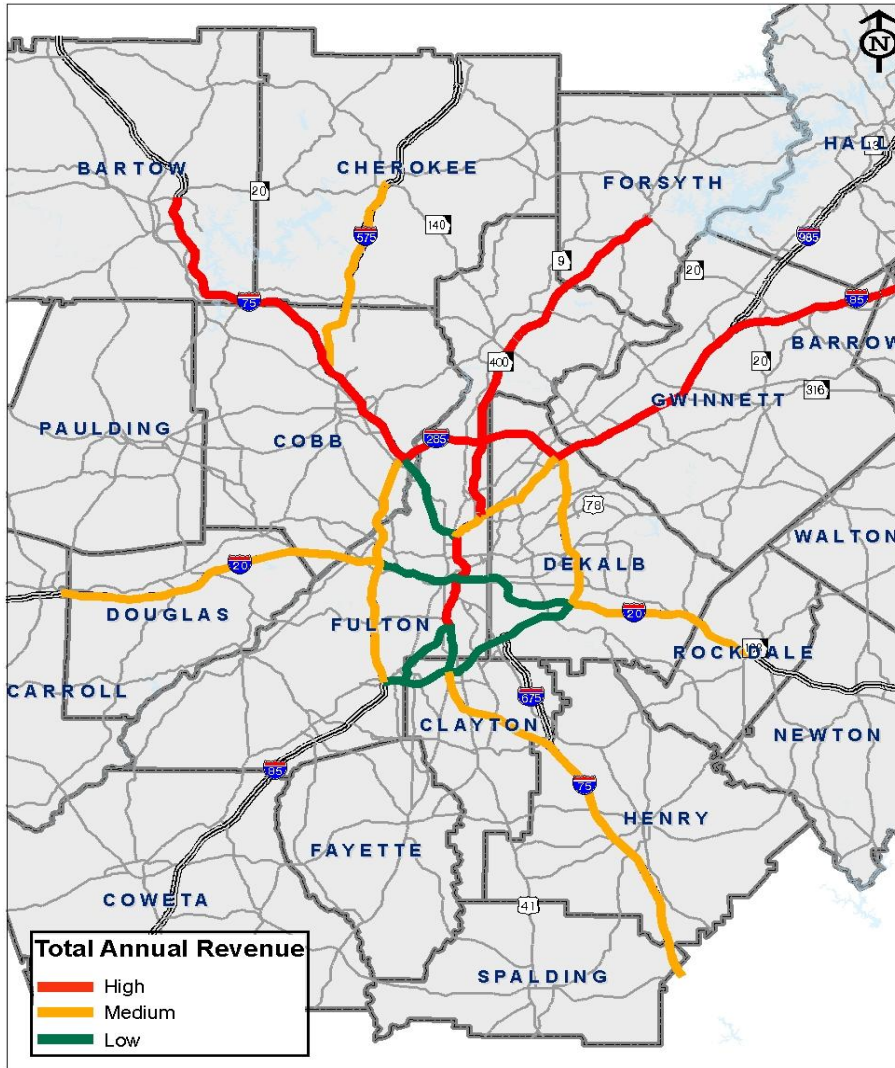
\*Revenue for Max Throughput Policy

- **High \$2.66 – \$6.61 million**
  - ✓ I-75 North from I-285 North to SR 20
  - ✓ I-285 North from I-85 North to I-75 North
  - ✓ I-285 East from I-20 East to I-85 North
  - ✓ Downtown Connector
  - ✓ I-75 South Inside I-285
  - ✓ I-85 North Inside I-285
- **Medium \$1.67 – \$2.09 million**
  - ✓ I-85 North from I-285 North to SR 211
  - ✓ SR 400 from I-85 to SR 20
  - ✓ I-20 West from I-285 West to Post Road
  - ✓ I-285 West from I-75 North to I-20 West
  - ✓ I-75 North Inside I-285
  - ✓ I-20 East Inside I-285
- **Low \$1.23 – \$1.47 million**
  - ✓ I-285 South from I-75 South to I-20 East
  - ✓ I-75 South from I-285 South to SR 16
  - ✓ I-20 East from I-285 East to SR 138
  - ✓ I-575 from I-75 to SR 20
  - ✓ I-85 South Inside I-285
  - ✓ I-20 West Inside I-285





# ETL Annual Corridor Revenue\* Ranking

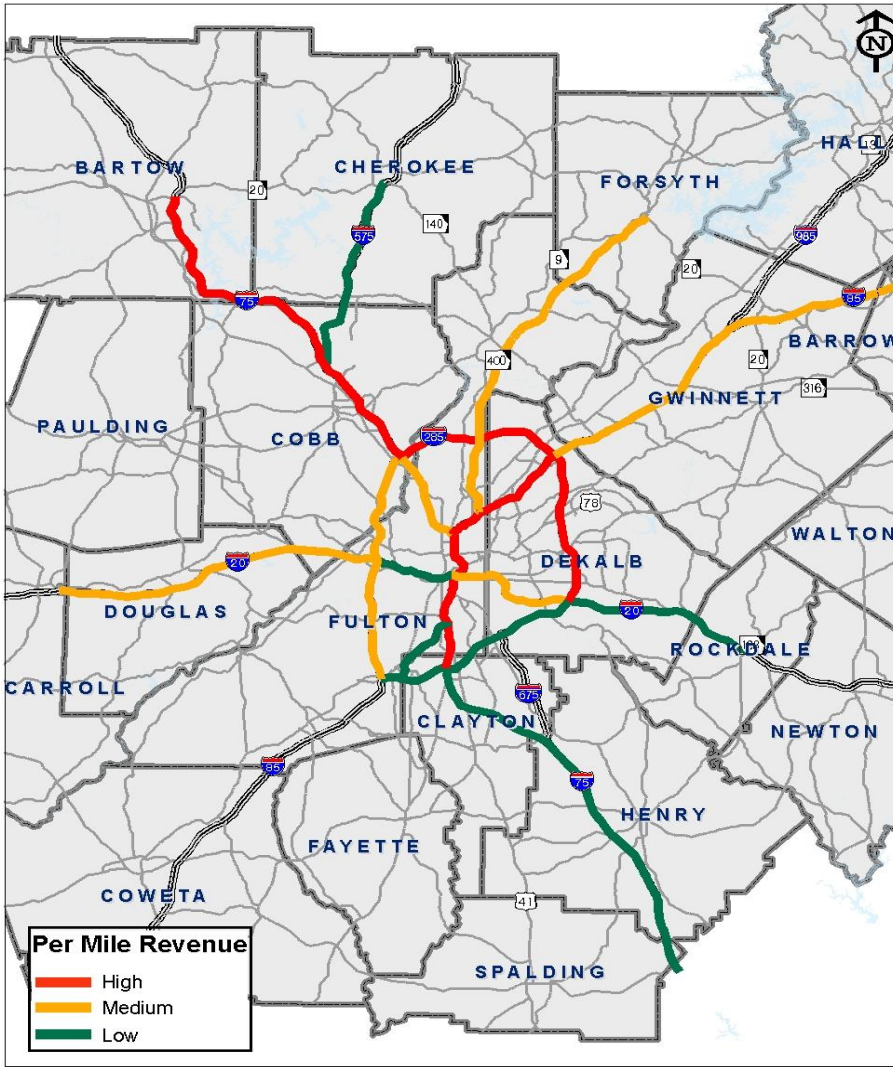


- **High \$57.63 – \$101.17 million**
  - ✓ I-75 North from I-285 North to SR 20
  - ✓ I-85 North from I-285 North to SR 211
  - ✓ I-285 North from I-85 North to I-75 North
  - ✓ SR 400 from I-85 to SR 20
  - ✓ Downtown Connector
- **Medium \$26.54 – \$50.70 million**
  - ✓ I-285 East from I-20 East to I-85 North
  - ✓ I-20 West from I-285 West to Post Road
  - ✓ I-285 West from I-75 North to I-20 West
  - ✓ I-75 South from I-285 South to SR 16
  - ✓ I-20 East from I-285 East to SR 138
  - ✓ I-575 from I-75 to SR 20
  - ✓ I-85 North Inside I-285
- **Low \$10.02 – \$21.37 million**
  - ✓ I-285 South from I-75 South to I-20 East
  - ✓ I-75 North Inside I-285
  - ✓ I-20 East Inside I-285
  - ✓ I-75 South Inside I-285
  - ✓ I-85 South Inside I-285
  - ✓ I-20 West Inside I-285

\*Revenue for Max Throughput Policy



# ETL Per Mile Corridor Revenue\* Ranking



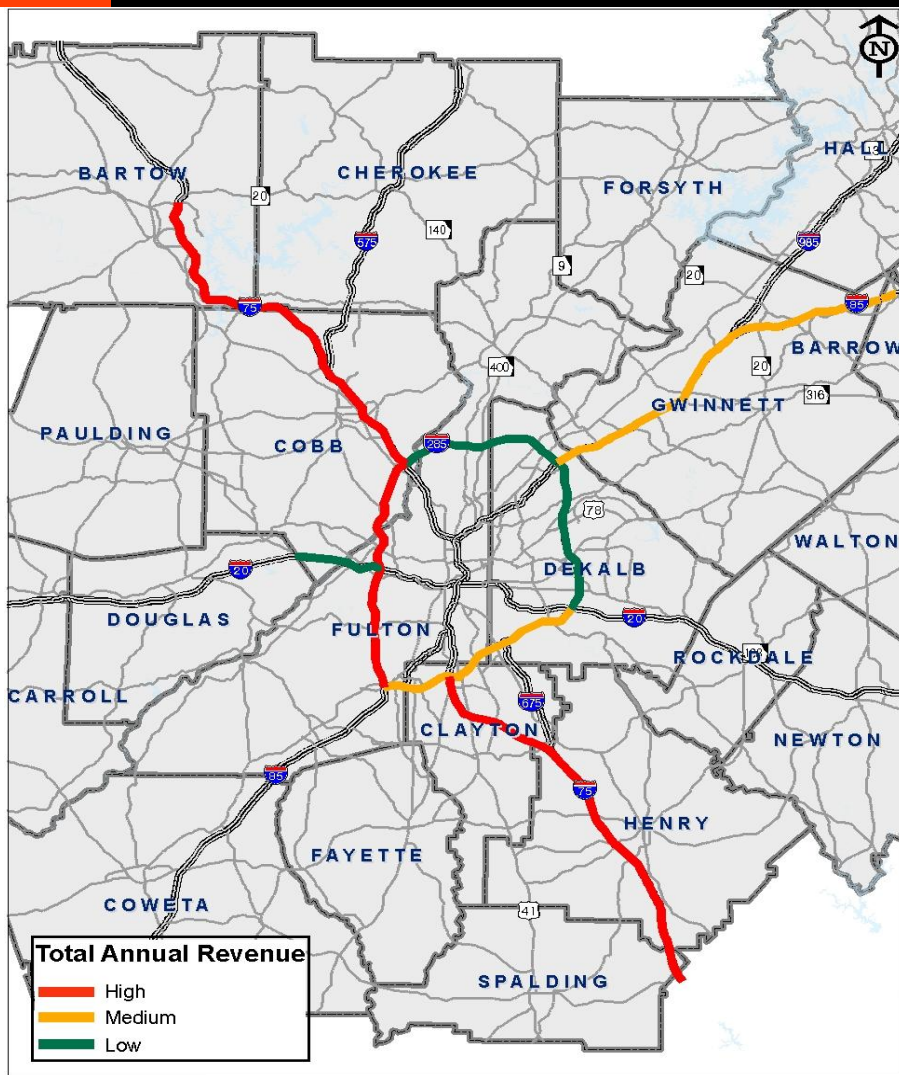
- **High \$2.87 – \$7.20 million**
  - ✓ I-75 North from I-285 North to SR 20
  - ✓ I-285 North from I-85 North to I-75 North
  - ✓ I-285 East from I-20 East to I-85 North
  - ✓ Downtown Connector
  - ✓ I-75 South Inside I-285
  - ✓ I-85 North Inside I-285
- **Medium \$1.80 – \$2.28 million**
  - ✓ I-85 North from I-285 North to SR 211
  - ✓ SR 400 from I-85 to SR 20
  - ✓ I-20 West from I-285 West to Post Road
  - ✓ I-285 West from I-75 North to I-20 West
  - ✓ I-75 North Inside I-285
  - ✓ I-20 East Inside I-285
- **Low \$1.26 – \$1.56 million**
  - ✓ I-285 South from I-75 South to I-20 East
  - ✓ I-75 South from I-285 South to SR 16
  - ✓ I-20 East from I-285 East to SR 138
  - ✓ I-575 from I-75 to SR 20
  - ✓ I-85 South Inside I-285
  - ✓ I-20 West Inside I-285

\*Revenue for Max Throughput Policy





# TOT Annual Corridor Revenue\* Ranking



## ■ High \$31.73 – \$38.31 million

- ✓ I-75 South from I-285 South to SR 16
- ✓ I-285 West from I-75 North to I-20 West
- ✓ I-75 North from I-285 North to SR 20

## ■ Medium \$25.06 – \$27.71 million

- ✓ I-285 South from I-75 South to I-20 East
- ✓ I-85 North from I-285 North to SR 211

## ■ Low \$5.44 – \$15.50 million

- ✓ I-285 North from I-85 North to I-75 North
- ✓ I-20 West from I-285 West to Post Road
- ✓ I-285 East from I-20 East to I-85 North

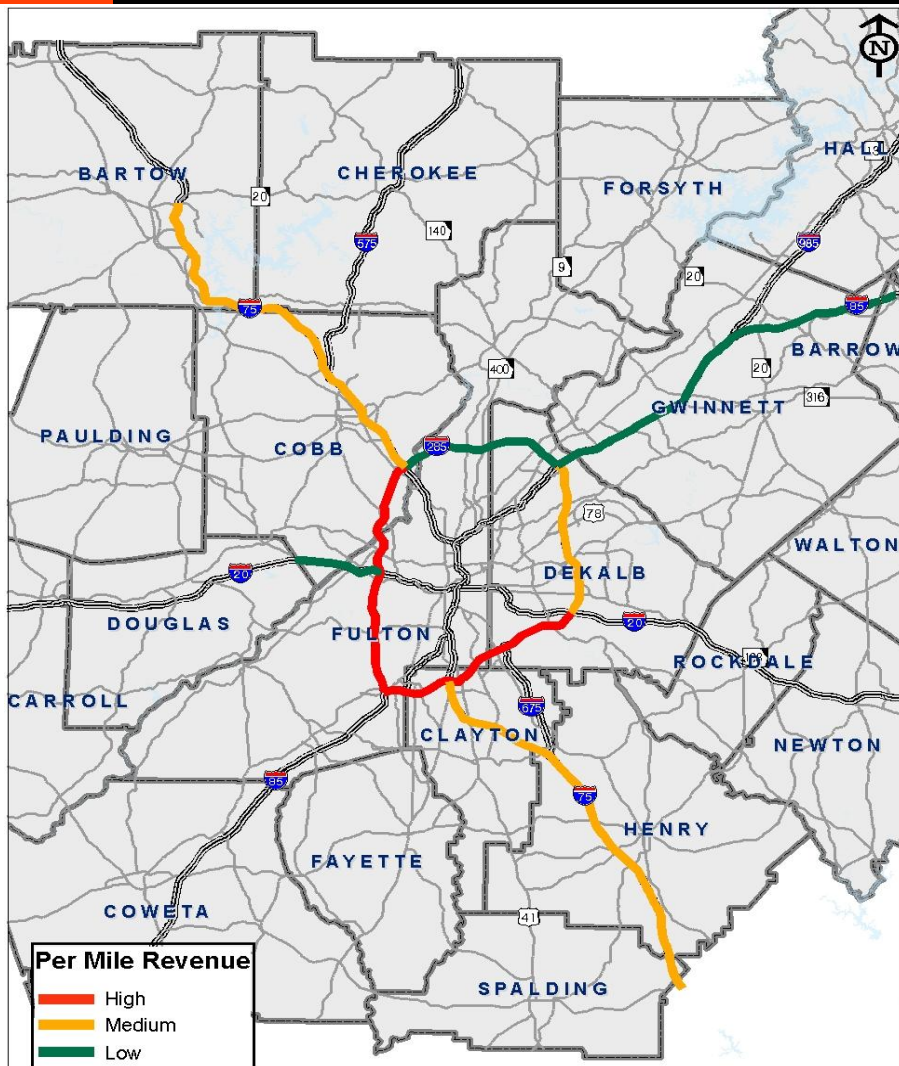
### No Capacity

- I-575
- I-20 East from I-285 East to SR 138
- SR 400 from I-85 to SR 20
- Downtown Connector
- I-20 East Inside I-285
- I-20 West Inside I-285
- I-75 North Inside I-285
- I-75 South Inside I-285
- I-85 North Inside I-285
- I-85 South Inside I-285

\*Revenue for Max Throughput Policy



# TOT Per Mile Corridor Revenue\* Ranking



- **High \$1.63 – \$1.82 million**
  - ✓ I-285 West from I-75 North to I-20 West
  - ✓ I-285 South from I-75 South to I-20 East
- **Medium \$0.93 – \$1.11 million**
  - ✓ I-75 South from I-285 South to SR 16
  - ✓ I-75 North from I-285 North to SR 20
  - ✓ I-285 East from I-20 East to I-85 North
- **Low \$0.23 – \$0.74 million**
  - ✓ I-285 North from I-85 North to I-75 North
  - ✓ I-85 North from I-285 North to SR 211
  - ✓ I-20 West from I-285 West to Post Road

## No Capacity

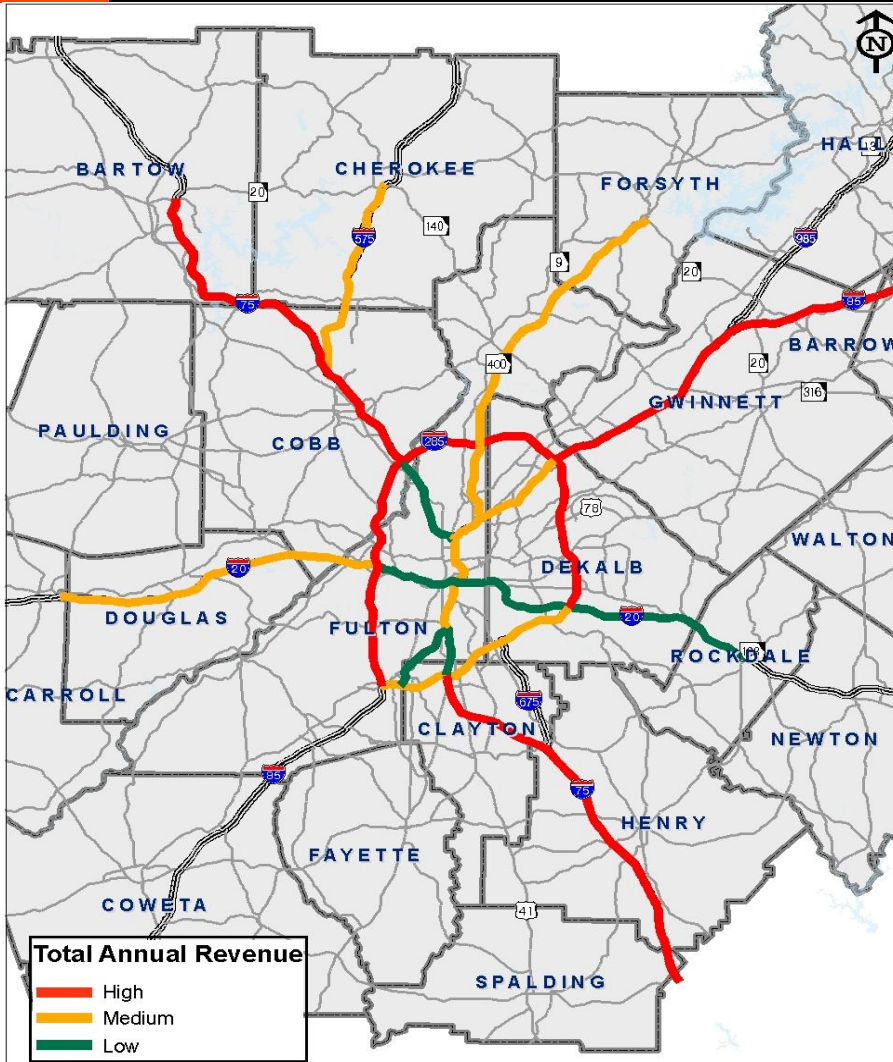
- I-575
- I-20 East from I-285 East to SR 138
- SR 400 from I-85 to SR 20
- Downtown Connector
- I-20 East Inside I-285
- I-20 West Inside I-285
- I-75 North Inside I-285
- I-75 South Inside I-285
- I-85 North Inside I-285
- I-85 South Inside I-285

### \*Revenue for Max Throughput Policy





# METL Annual Corridor Revenue\* Ranking

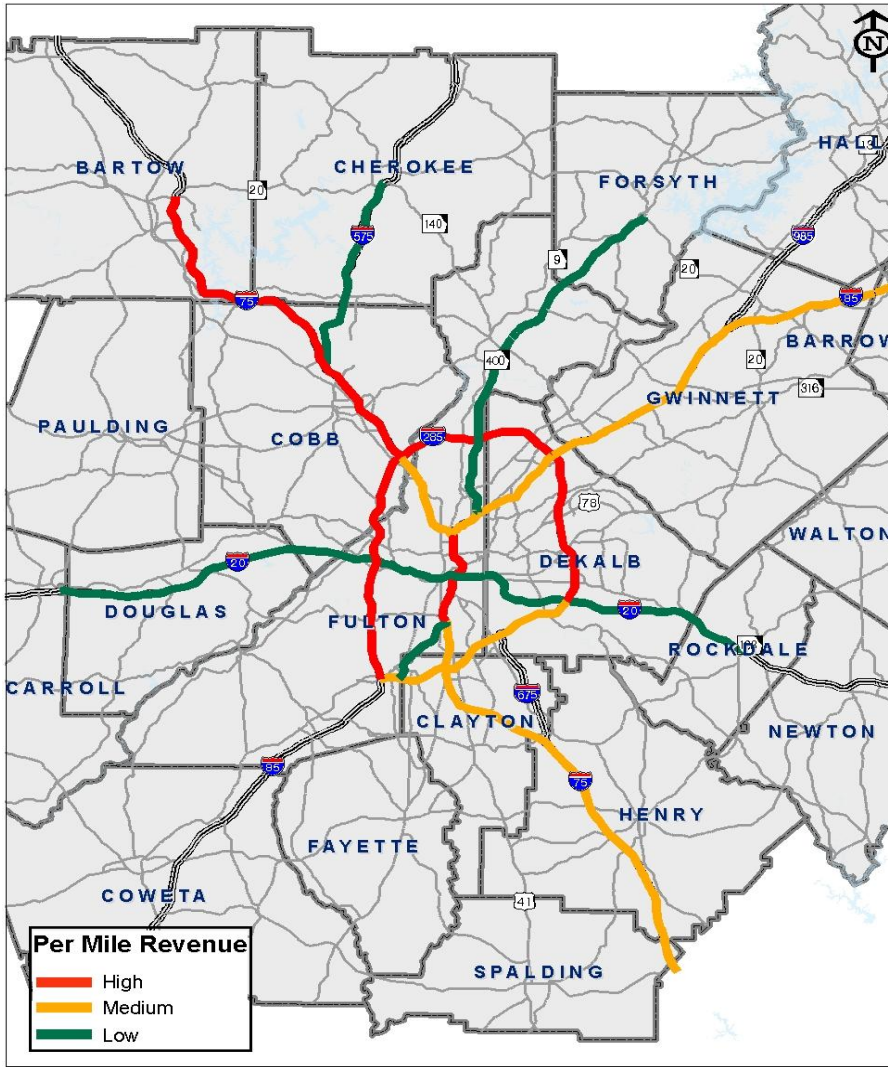


\*Revenue for Max Throughput Policy

- **High \$68.04 – \$136.59 million**
  - ✓ I-75 North from I-285 North to SR 20
  - ✓ I-75 South from I-285 South to SR 16
  - ✓ I-285 East from I-20 East to I-85 North
  - ✓ I-285 West from I-75 North to I-20 West
  - ✓ I-285 North from I-85 North to I-75 North
  - ✓ I-85 North from I-285 North to SR 211
- **Medium \$27.58 – \$59.53 million**
  - ✓ Downtown Connector
  - ✓ SR 400 from I-85 to SR 20
  - ✓ I-20 West from I-285 West to Post Road
  - ✓ I-575
  - ✓ I-285 South from I-75 South to I-20 East
  - ✓ I-85 North Inside I-285
- **Low \$10.02 – \$26.54 million**
  - ✓ I-20 East from I-285 East to SR 138
  - ✓ I-20 East Inside I-285
  - ✓ I-20 West Inside I-285
  - ✓ I-85 South Inside I-285
  - ✓ I-75 North Inside I-285
  - ✓ I-75 South Inside I-285



# METL Per Mile Corridor Revenue\* Ranking



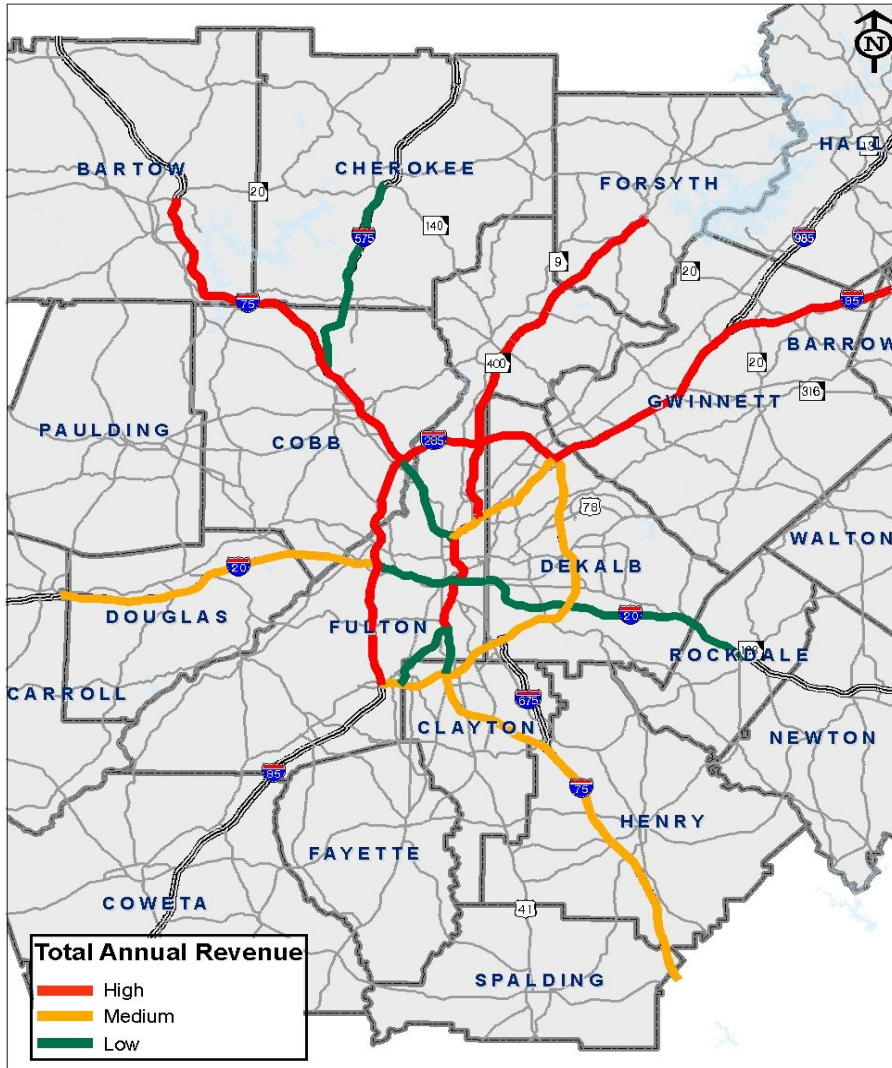
- **High \$4.20 – \$7.20 million**
  - ✓ Downtown Connector
  - ✓ I-75 North from I-285 North to SR 20
  - ✓ I-285 East from I-20 East to I-85 North
  - ✓ I-285 West from I-75 North to I-20 West
  - ✓ I-285 North from I-85 North to I-75 North
- **Medium \$2.23 – \$3.26 million**
  - ✓ I-85 North from I-285 North to SR 211
  - ✓ I-75 South from I-285 South to SR 16
  - ✓ I-285 South from I-75 South to I-20 East
  - ✓ I-85 North Inside I-285
  - ✓ I-75 North Inside I-285
  - ✓ I-75 South Inside I-285
- **Low \$1.34 – \$2.05 million**
  - ✓ I-575
  - ✓ I-20 East from I-285 East to SR 138
  - ✓ I-20 West from I-285 West to Post Road
  - ✓ SR 400 from I-85 to SR 20
  - ✓ I-20 East Inside I-285
  - ✓ I-20 West Inside I-285
  - ✓ I-85 South Inside I-285

\*Revenue for Max Throughput Policy





# 2+2 Annual Corridor Revenue\* Ranking

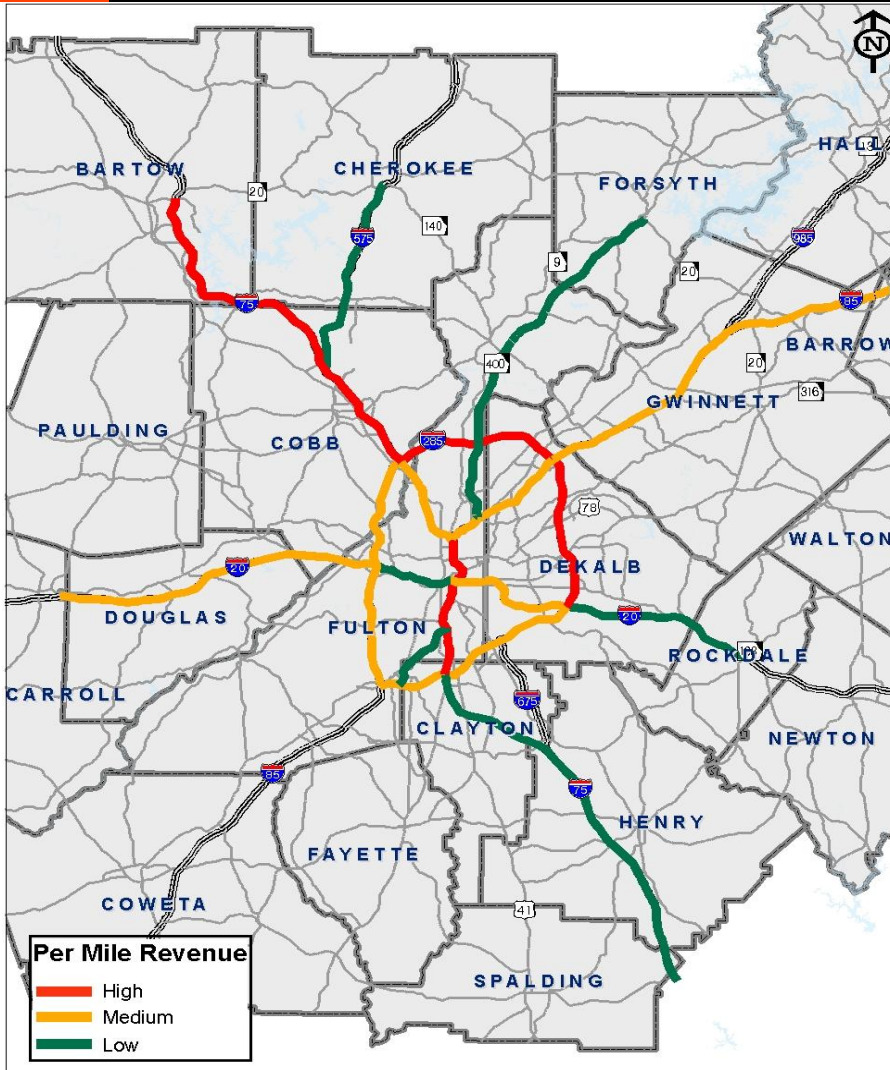


- **High \$59.53 – \$101.54 million**
  - ✓ Downtown Connector
  - ✓ I-75 North from I-285 North to SR 20
  - ✓ I-285 West from I-75 North to I-20 West
  - ✓ I-285 North from I-85 North to I-75 North
  - ✓ I-85 North from I-285 North to SR 211
  - ✓ SR 400 from I-85 to SR 20
- **Medium \$34.47 – \$54.90 million**
  - ✓ I-75 South from I-285 South to SR 16
  - ✓ I-285 East from I-20 East to I-85 North
  - ✓ I-20 West from I-285 West to Post Road
  - ✓ I-285 South from I-75 South to I-20 East
  - ✓ I-85 North Inside I-285
- **Low \$10.02 – \$27.58 million**
  - ✓ I-575
  - ✓ I-20 East from I-285 East to SR 138
  - ✓ I-20 East Inside I-285
  - ✓ I-20 West Inside I-285
  - ✓ I-85 South Inside I-285
  - ✓ I-75 North Inside I-285
  - ✓ I-75 South Inside I-285

\*Revenue for Max Throughput Policy



# 2+2 Per Mile Corridor Revenue\* Ranking



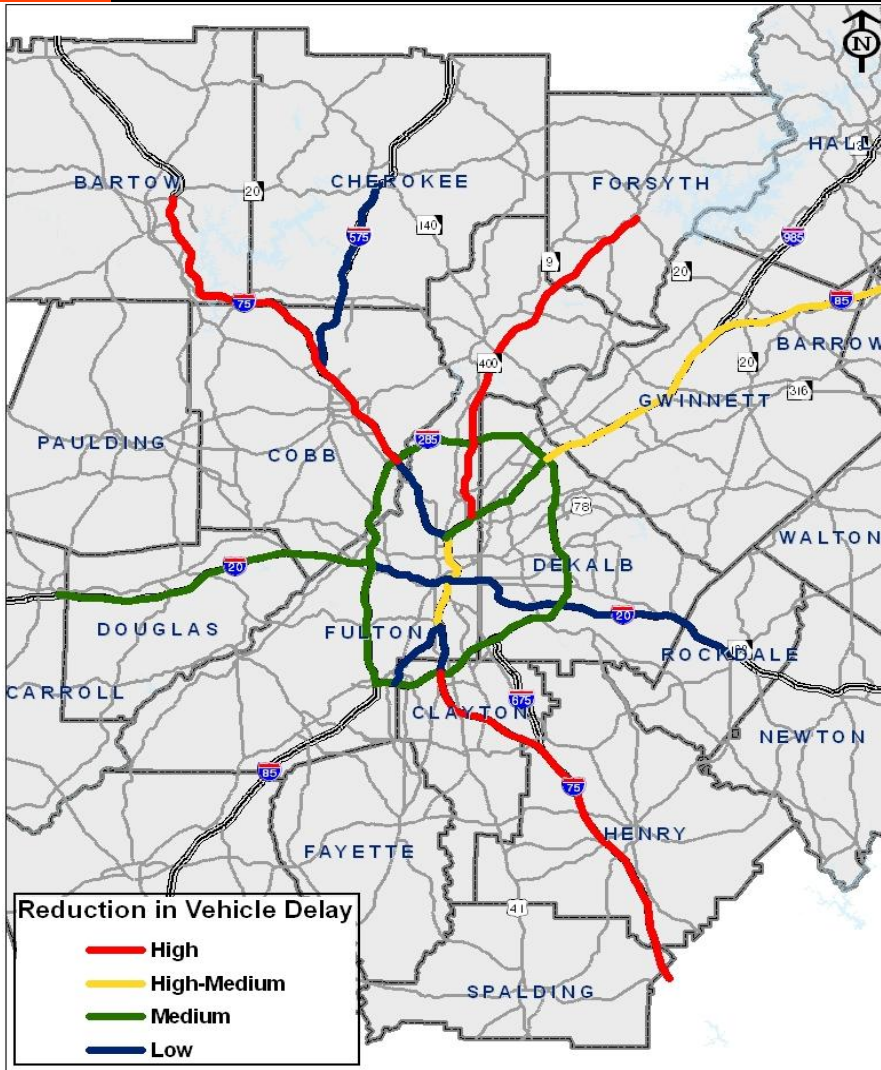
\*Revenue for Max Throughput Policy

- **High \$3.26 – \$7.20 million**
  - ✓ Downtown Connector
  - ✓ I-75 North from I-285 North to SR 20
  - ✓ I-285 North from I-85 North to I-75 North
  - ✓ I-285 East from I-20 East to I-85 North
  - ✓ I-75 South Inside I-285
- **Medium \$1.92 – \$2.92 million**
  - ✓ I-85 North from I-285 North to SR 211
  - ✓ I-285 West from I-75 North to I-20 West
  - ✓ I-20 West from I-285 West to Post Road
  - ✓ I-285 South from I-75 South to I-20 East
  - ✓ I-85 North Inside I-285
  - ✓ I-20 East Inside I-285
  - ✓ I-75 North Inside I-285
- **Low \$1.34 – \$1.80 million**
  - ✓ SR 400 from I-85 to SR 20
  - ✓ I-75 South from I-285 South to SR 16
  - ✓ I-575
  - ✓ I-20 East from I-285 East to SR 138
  - ✓ I-20 West Inside I-285
  - ✓ I-85 South Inside I-285





# Summary Total Delay Reduction\* Ranking



\*Delay Reduction for Max Throughput Policies

## High

- ✓ I-75 North from I-285 North to SR 20
- ✓ I-75 South from I-285 South to SR 16
- ✓ SR 400 from I-85 to SR 20

## High-Medium

- ✓ Downtown Connector
- ✓ I-85 North from I-285 North to SR 211

## Medium

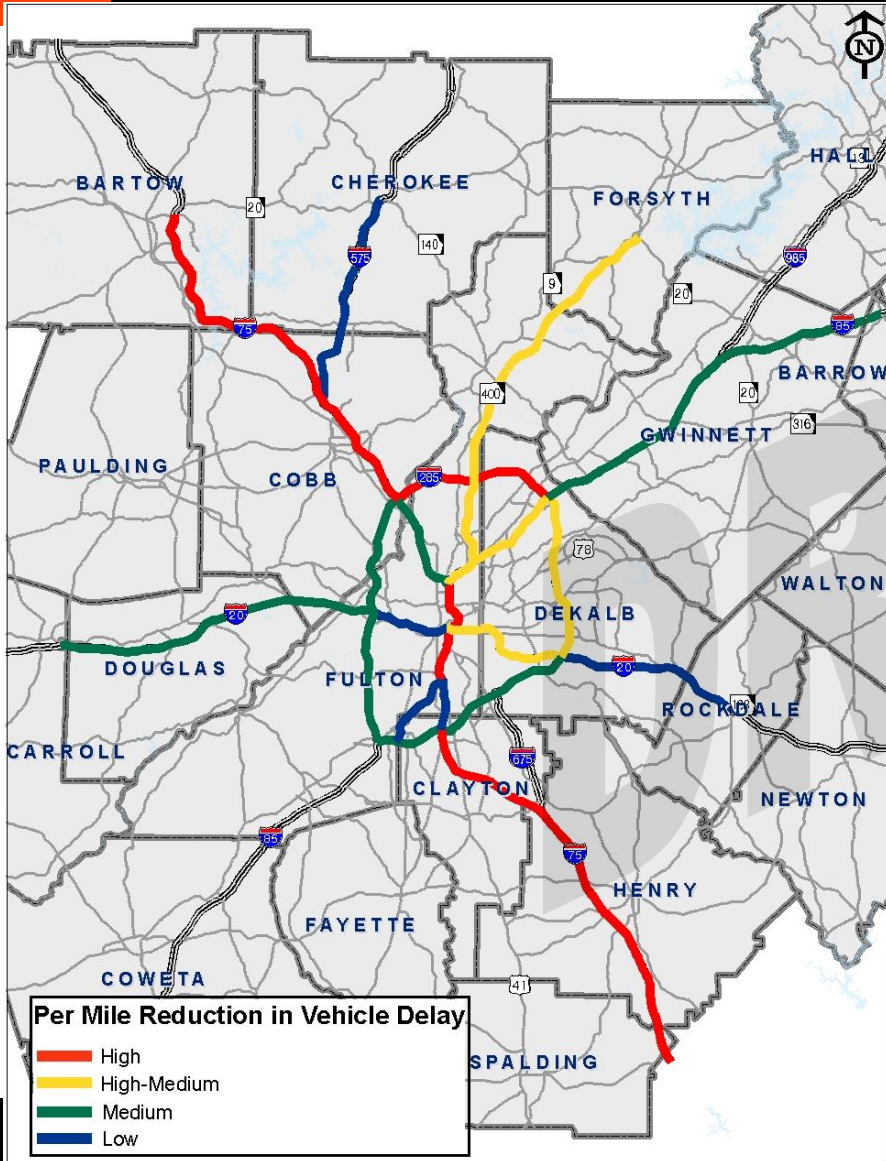
- ✓ I-285 North from I-85 North to I-75 North
- ✓ I-285 West from I-75 North to I-20 West
- ✓ I-20 West from I-285 West to Post Road
- ✓ I-285 East from I-20 East to I-85 North
- ✓ I-285 South from I-75 South to I-20 East
- ✓ I-85 North Inside I-285

## Low

- ✓ I-575 from I-75 to SR 20
- ✓ I-20 East Inside I-285
- ✓ I-75 North Inside I-285
- ✓ I-20 East from I-285 East to SR 138
- ✓ I-20 West Inside I-285
- ✓ I-85 South Inside I-285
- ✓ I-75 South Inside I-285



# Summary Per-Mile Delay Reduction\* Ranking



## High

- ✓ Downtown Connector
- ✓ I-75 North from I-285 North to SR 20
- ✓ I-75 South from I-285 South to SR 16
- ✓ I-285 North from I-85 North to I-75 North

## High-Medium

- ✓ SR 400 from I-85 to SR 20
- ✓ I-285 East from I-20 East to I-85 North
- ✓ I-20 East Inside I-285
- ✓ I-85 North Inside I-285

## Medium

- ✓ I-85 North from I-285 North to SR 211
- ✓ I-285 West from I-75 North to I-20 West
- ✓ I-20 West from I-285 West to Post Road
- ✓ I-285 South from I-75 South to I-20 East
- ✓ I-75 North Inside I-285

## Low

- ✓ I-575 from I-75 to SR 20
- ✓ I-20 East from I-285 East to SR 138
- ✓ I-20 West Inside I-285
- ✓ I-85 South Inside I-285
- ✓ I-75 South Inside I-285

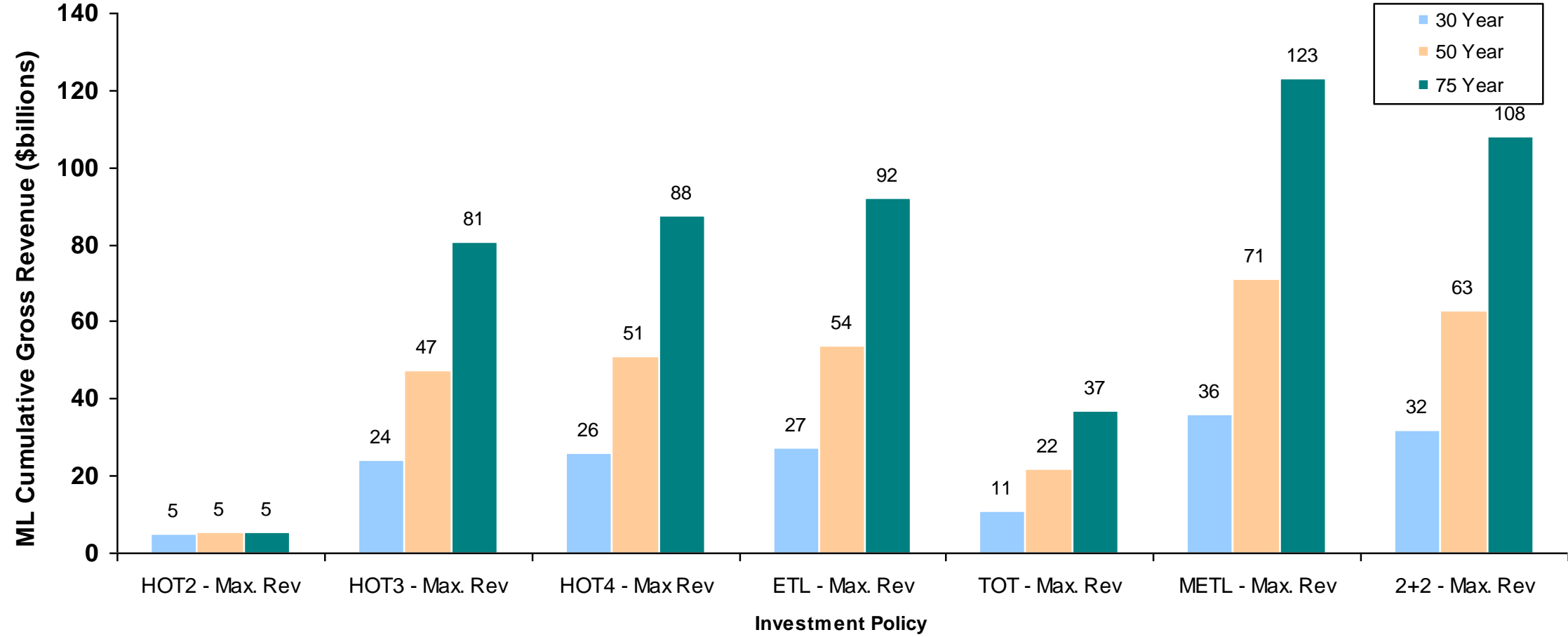




# Cumulative Gross Revenue



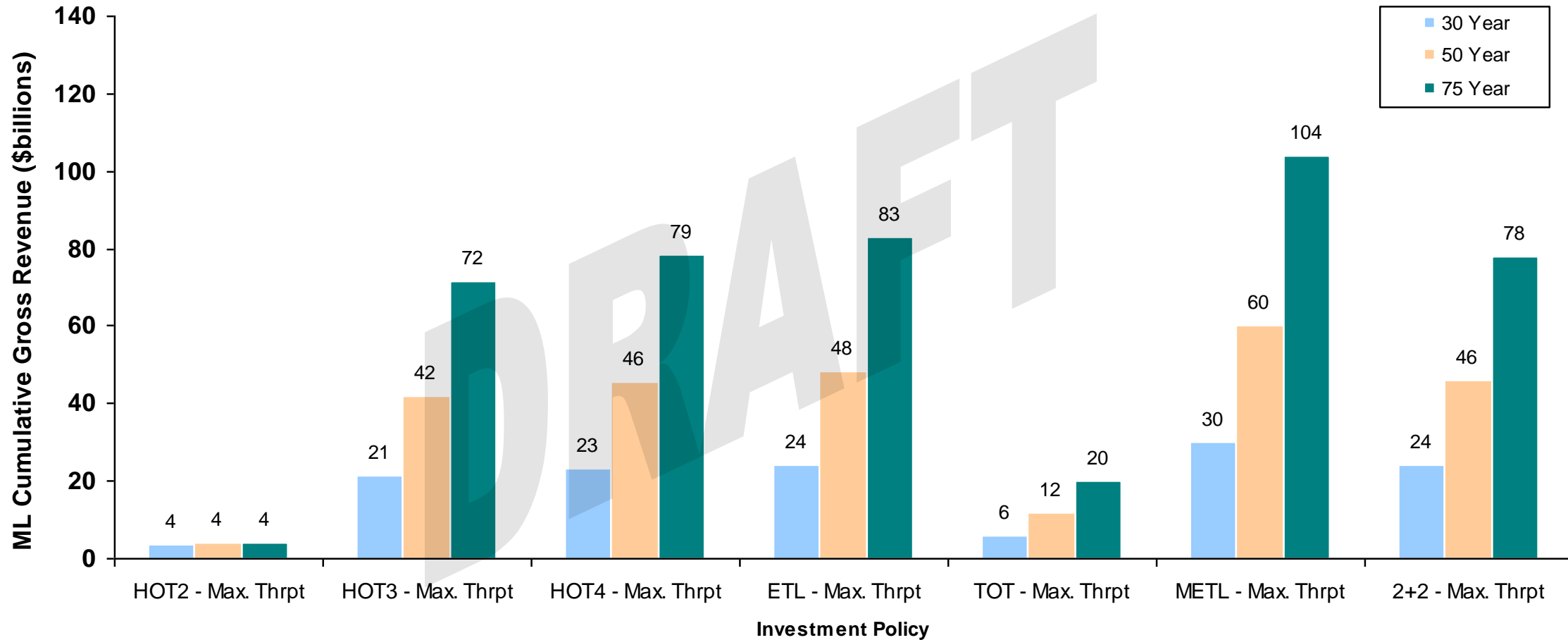
# Gross Revenue\* Graph – Max Revenue



\* Cumulative System Gross Revenue. The Financeable amount would be a fraction of cumulative gross revenue



# Gross Revenue\* Graph – Max Throughput



\* Cumulative System Gross Revenue. The Financeable amount would be a fraction of cumulative gross revenue



# Gross Revenue\* (per lane-mile) Matrix

Managed Lane Policy	System Lane-Miles	Gross Revenue (\$millions)		
		30 Year	50 Year	75 Year
HOT2 – MaxRev	1,100	4	5	5
HOT3 – MaxRev	1,100	22	43	74
HOT4 – MaxRev	1,100	24	47	80
ETL – MaxRev	1,100	25	49	84
TOT – MaxRev	680	16	32	54
METL – MaxRev	1,500	24	47	82
2+2 – MaxRev	1,800	18	35	60

- Different policies have different numbers of lane-miles
- ETL policy generates the highest revenue streams *on a per-mile basis* for 30, 50, and 75-year periods
- If all lane-miles cost the same amount to build, the ETL policy would be the most efficient, based on the revenue per lane-mile numbers shown here

\* Cumulative System Gross Revenue. The Financeable amount would be a fraction of cumulative gross revenue





# Gross Revenue\* (per lane-mile) Matrix

Managed Lane Policy	System Lane-Miles	Gross Revenue (\$millions)		
		30 Year	50 Year	75 Year
HOT2 – Max Thrpt	1,100	4	4	4
HOT3 – Max Thrpt	1,100	19	38	65
HOT4 – Max Thrpt	1,100	21	42	71
ETL – MaxThrpt	1,100	22	44	75
TOT – MaxThrpt	680	9	18	29
METL – MaxThrpt	1,500	20	40	69
2+2 – MaxThrpt	1,800	13	26	43

- Different policies have different numbers of lane-miles
- ETL policy generates the highest revenue streams *on a per-mile basis* for 30, 50, and 75-year periods
- If all lane-miles cost the same amount to build, the ETL policy would be the most efficient, based on the revenue per lane-mile numbers shown here

\* Cumulative System Gross Revenue. The Financeable amount would be a fraction of cumulative gross revenue



# Next Steps - Ongoing

- Develop Cumulative Net Revenue
- Develop analysis framework for risk assessment
  - Growth
  - Willingness to Pay
  - Transportation Improvements



- Questions!

